

FIG. 1A

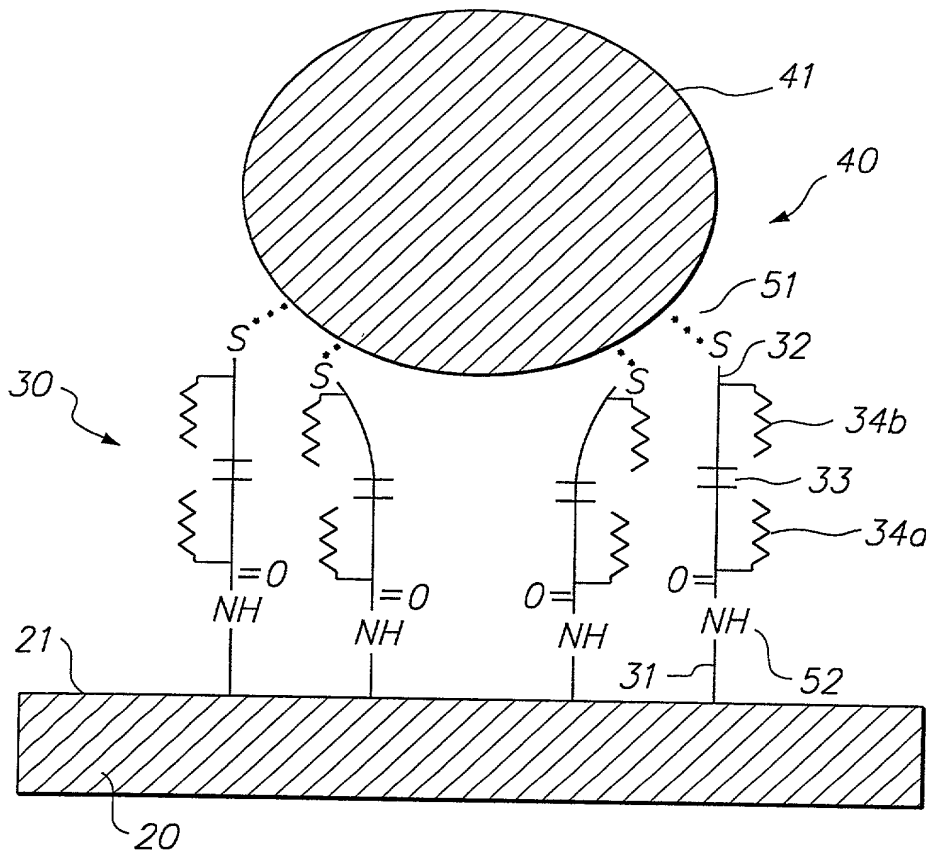
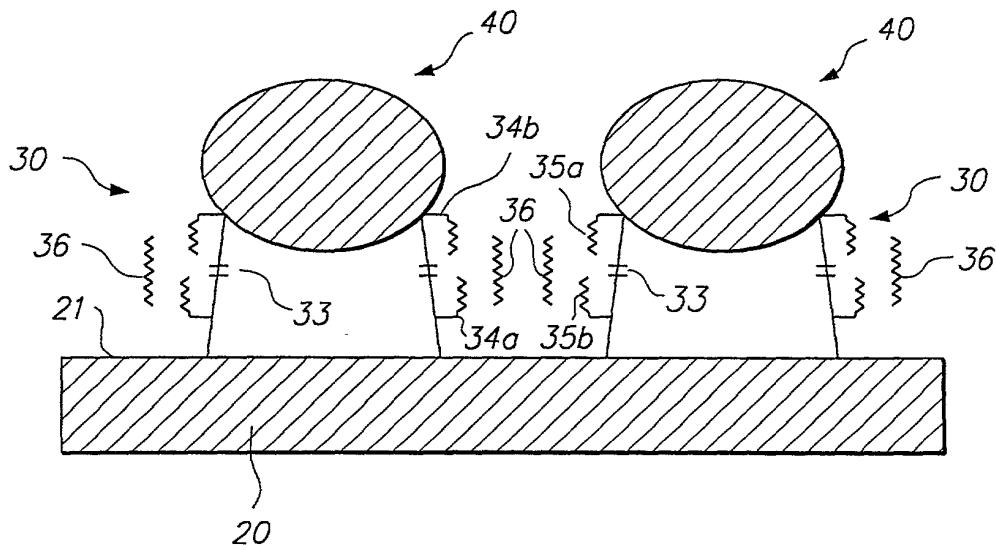
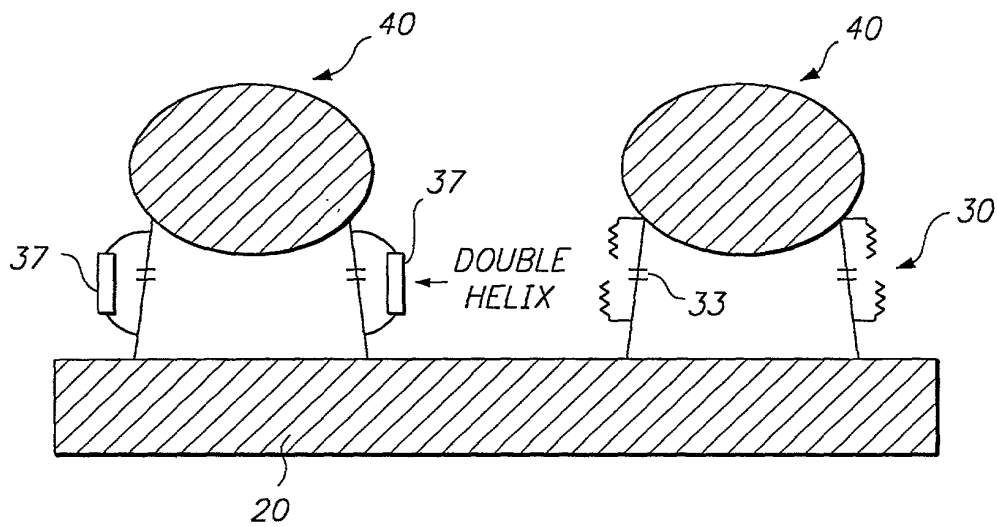


FIG. 1B



**FIG. 2A**



**FIG. 2B**

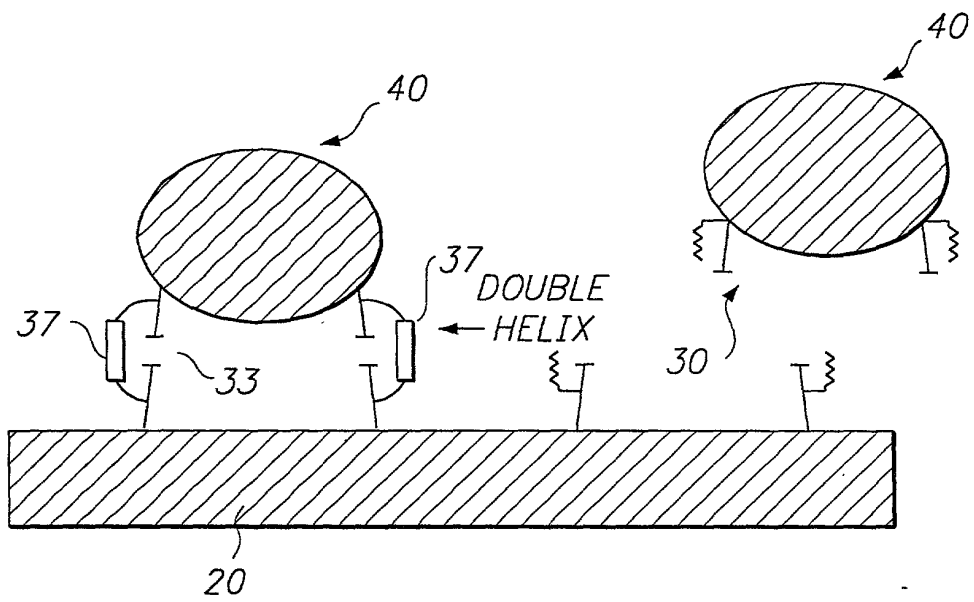


FIG. 2C

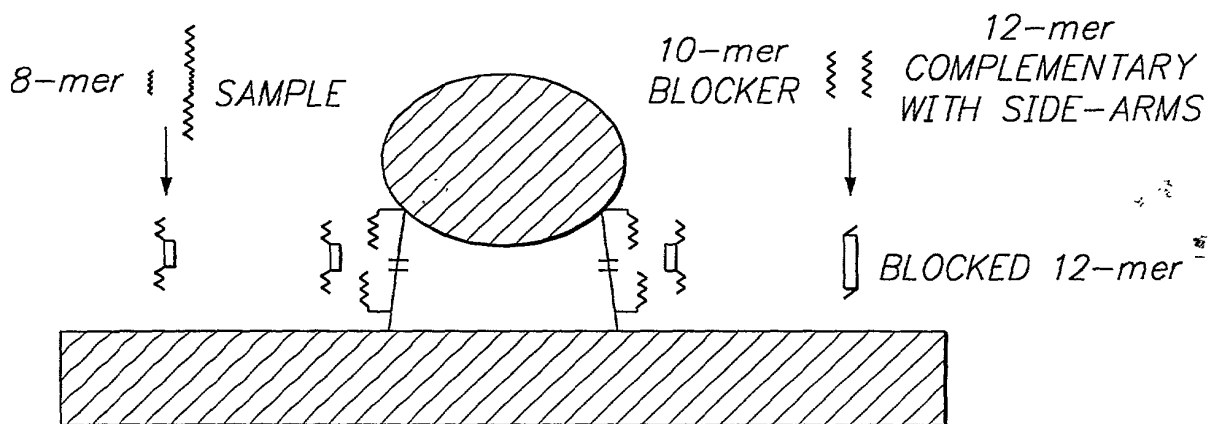
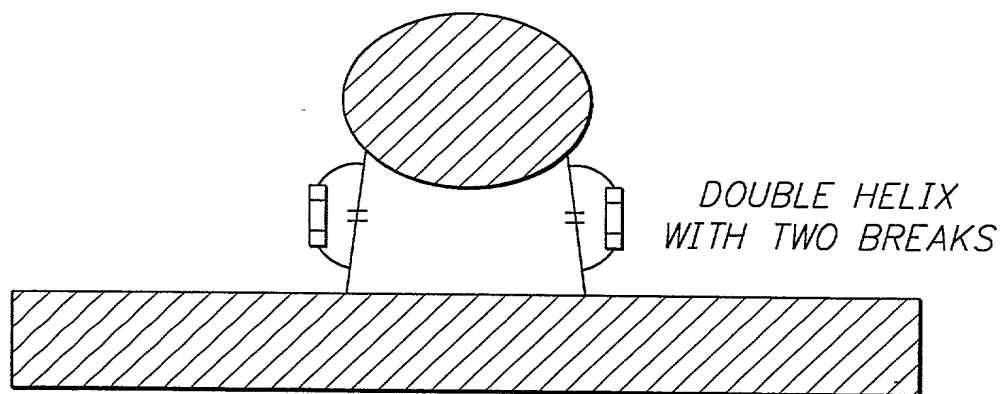
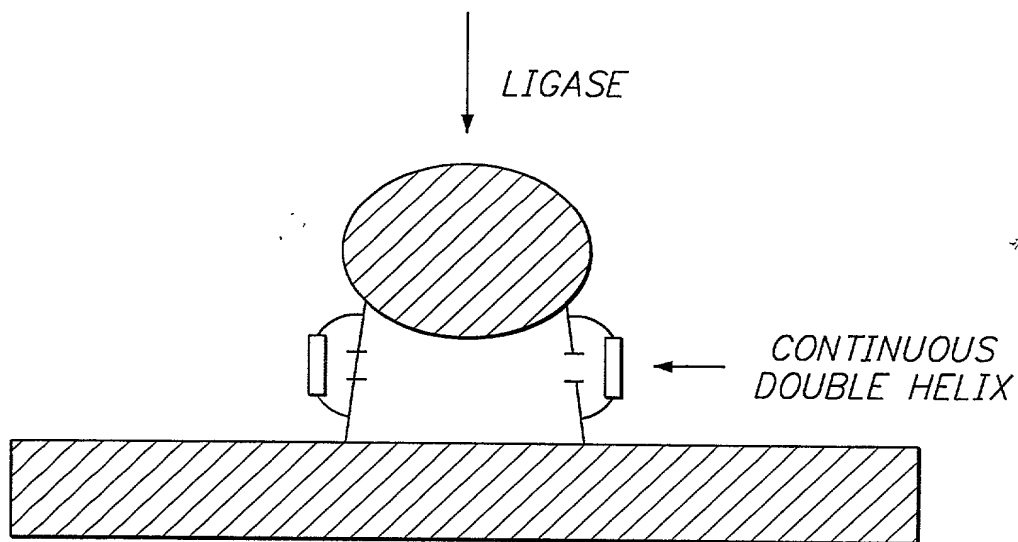


FIG. 2D



**FIG. 2E**



**FIG. 2F**

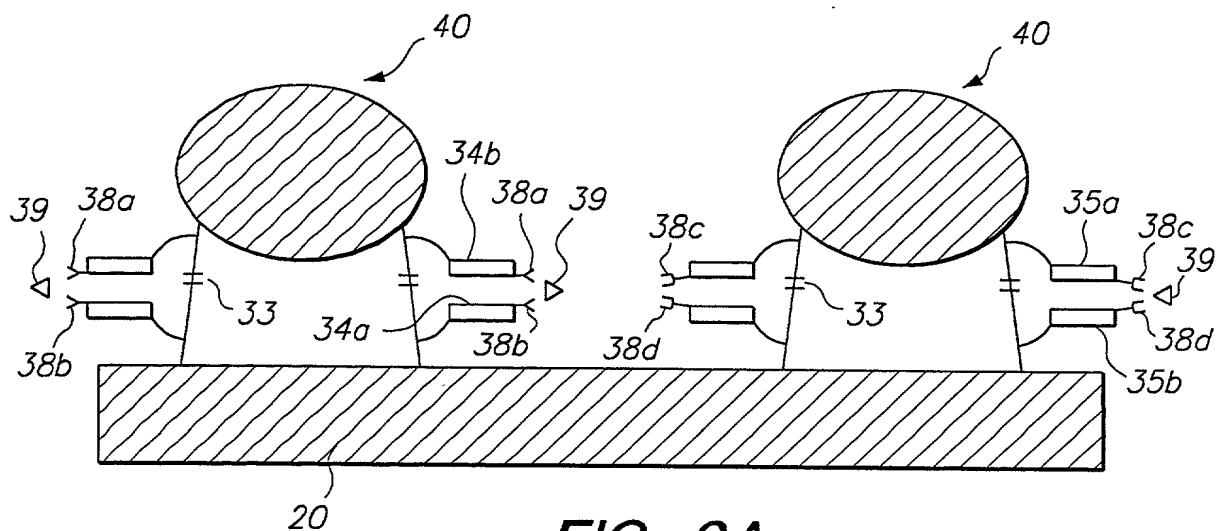


FIG. 3A

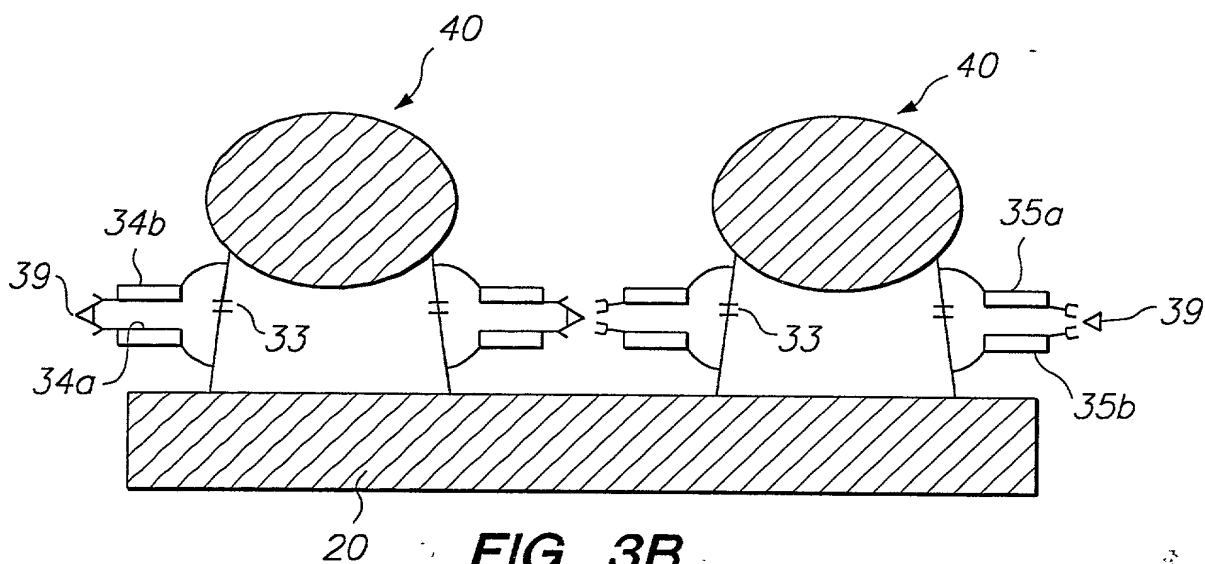


FIG. 3B

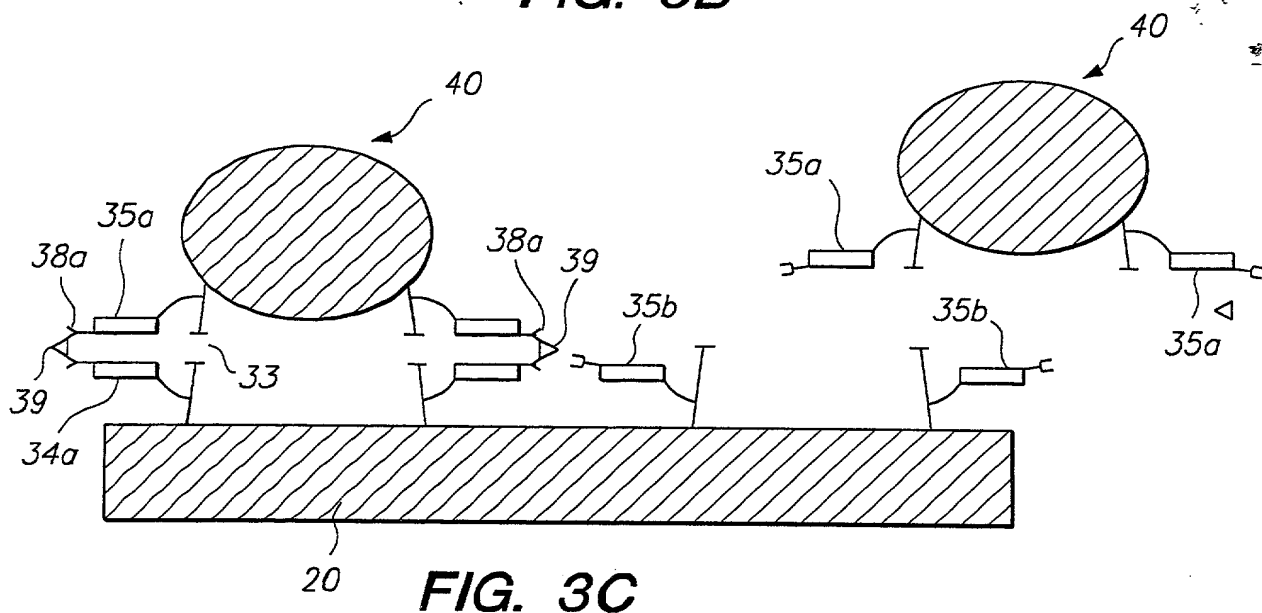


FIG. 3C

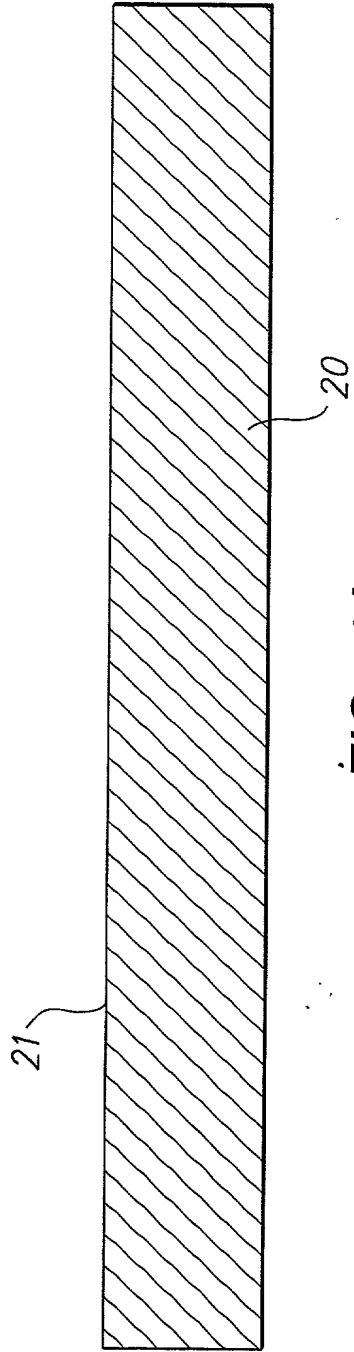


FIG. 4A

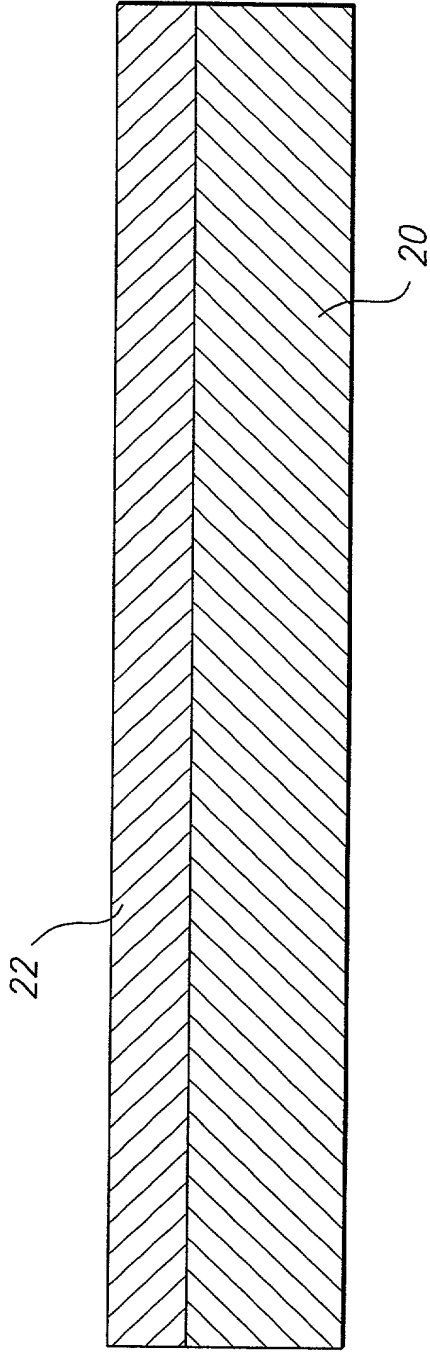


FIG. 4B

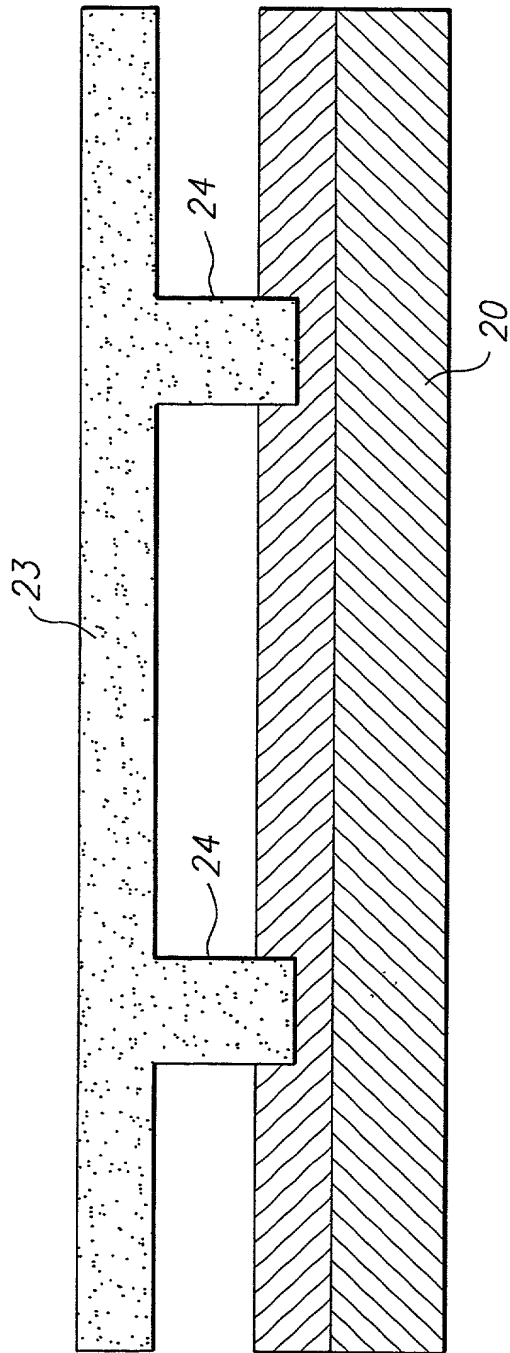


FIG. 4C

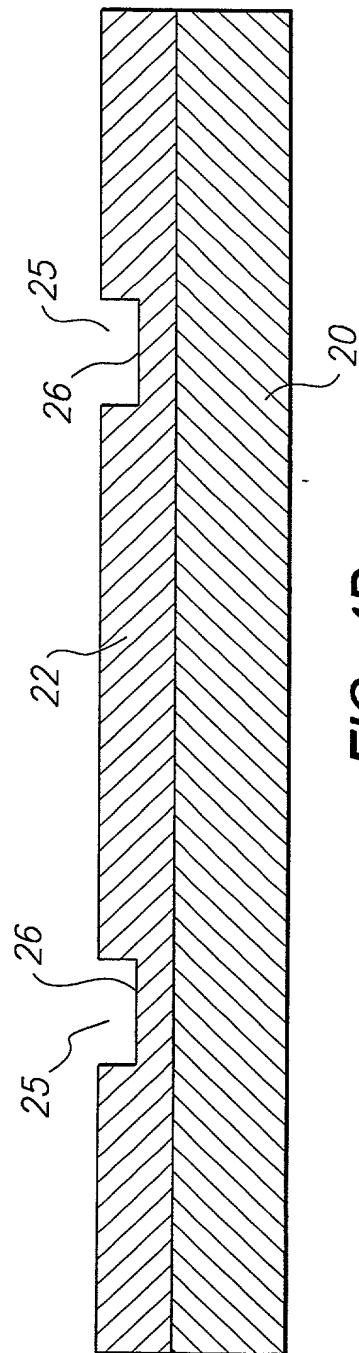
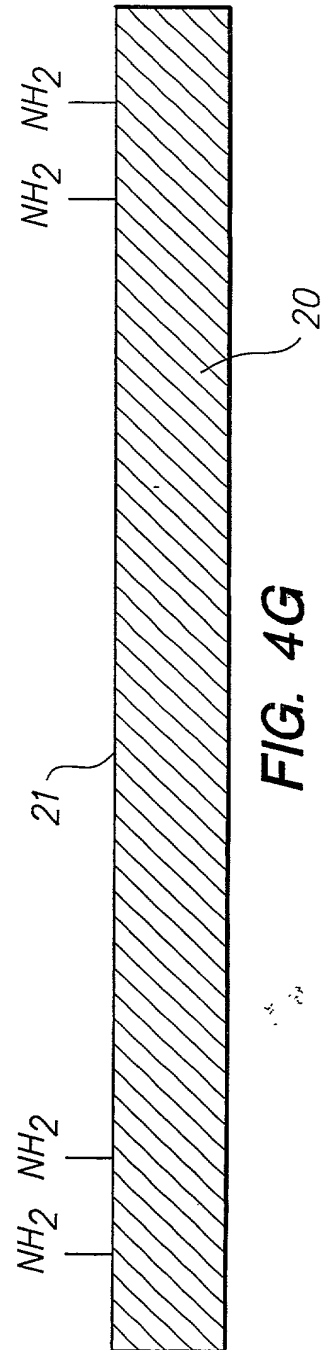
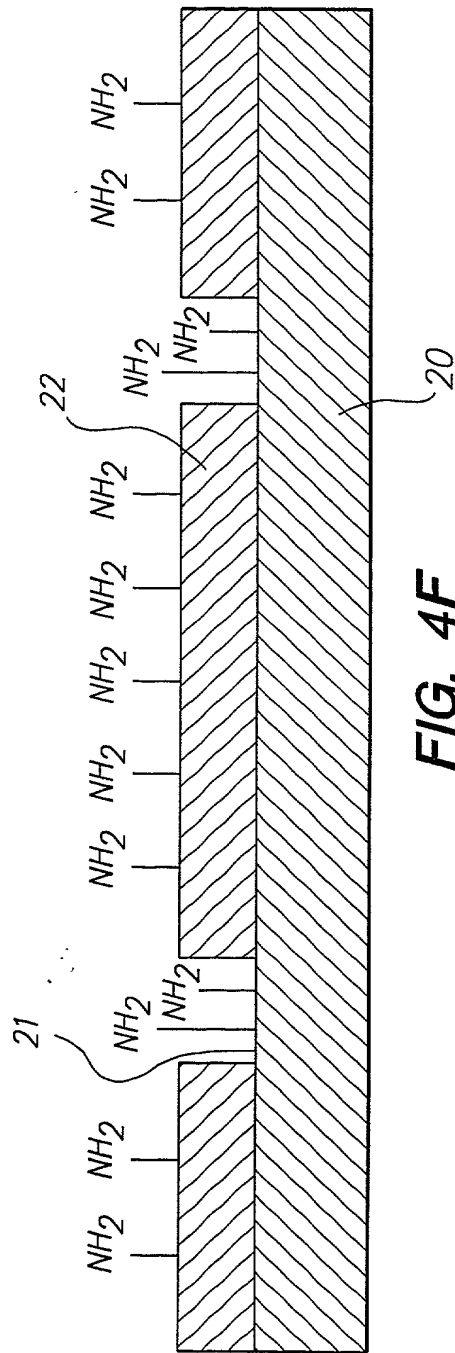
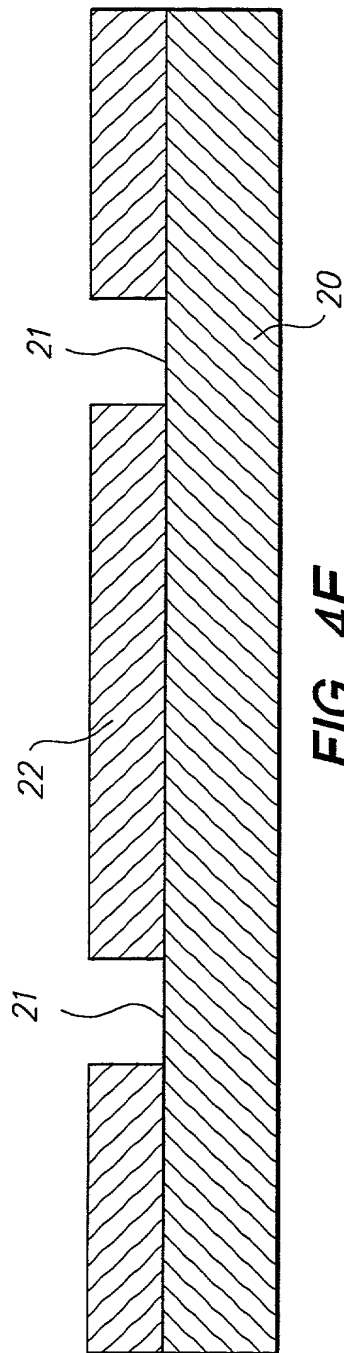


FIG. 4D







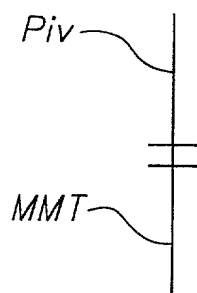
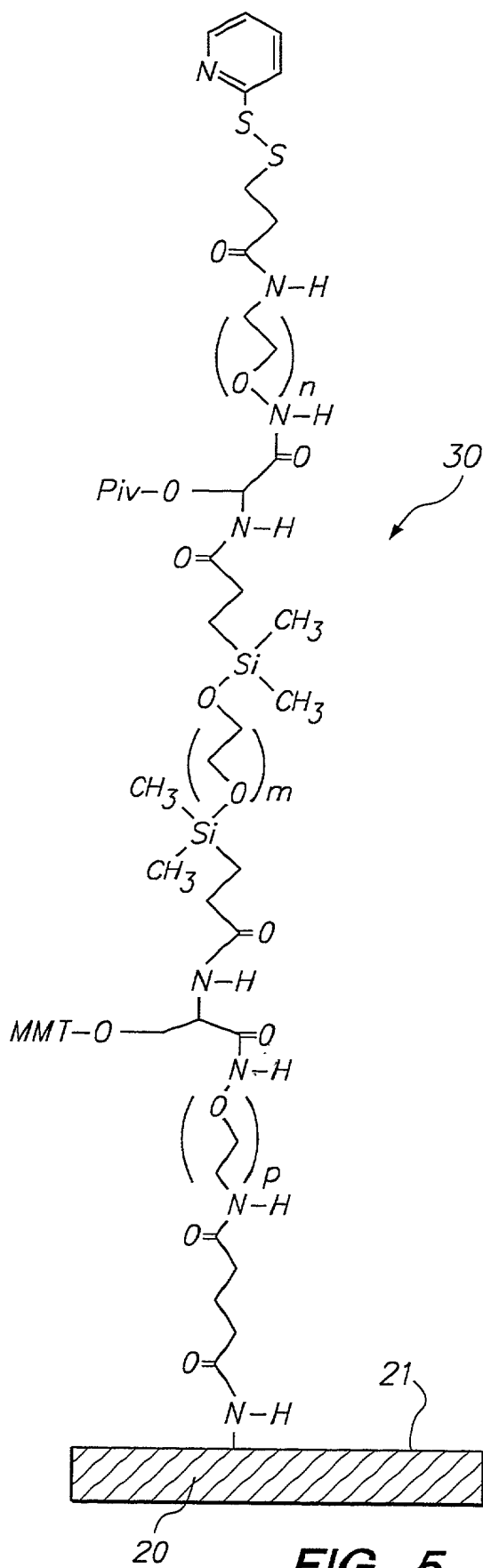
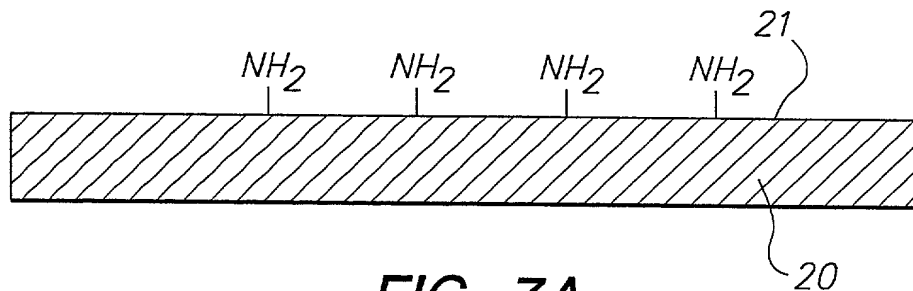
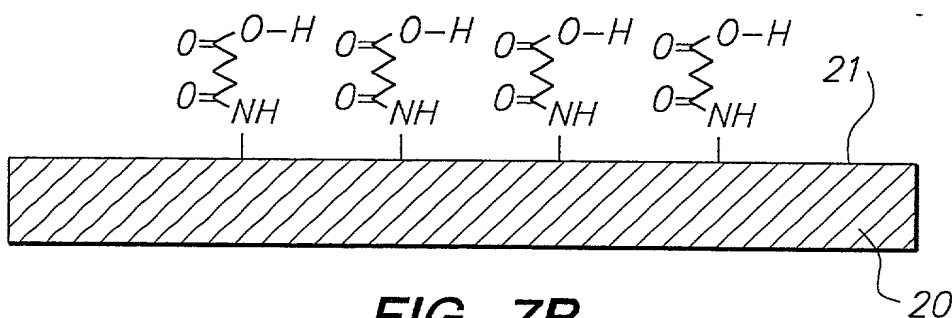


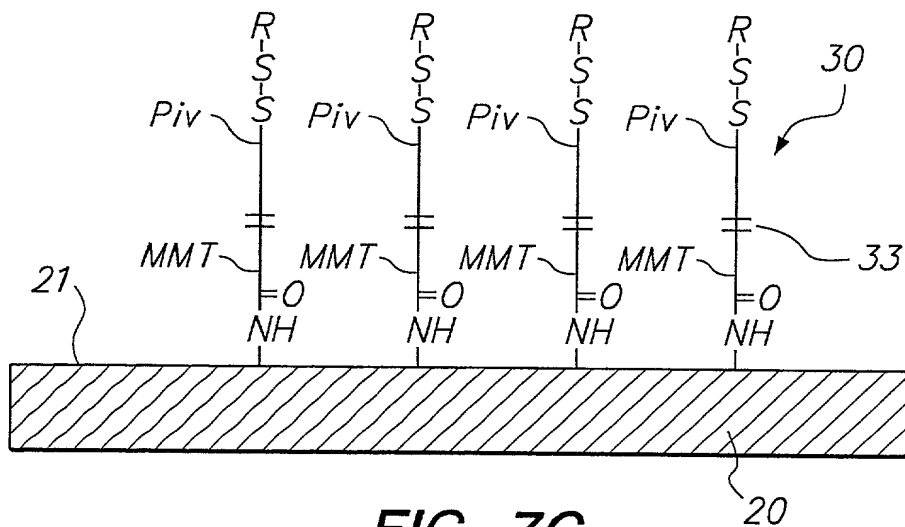
FIG. 6



**FIG. 7A**



**FIG. 7B**



**FIG. 7C**

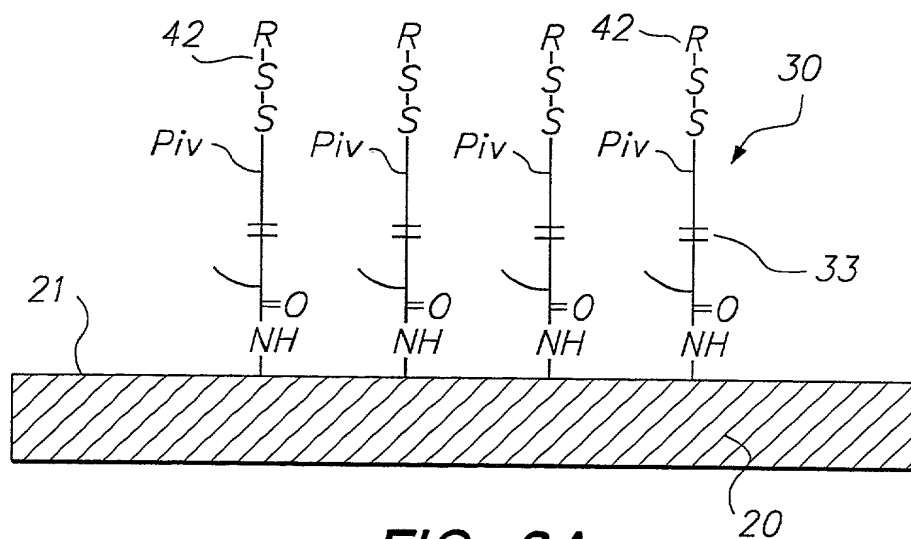


FIG. 8A

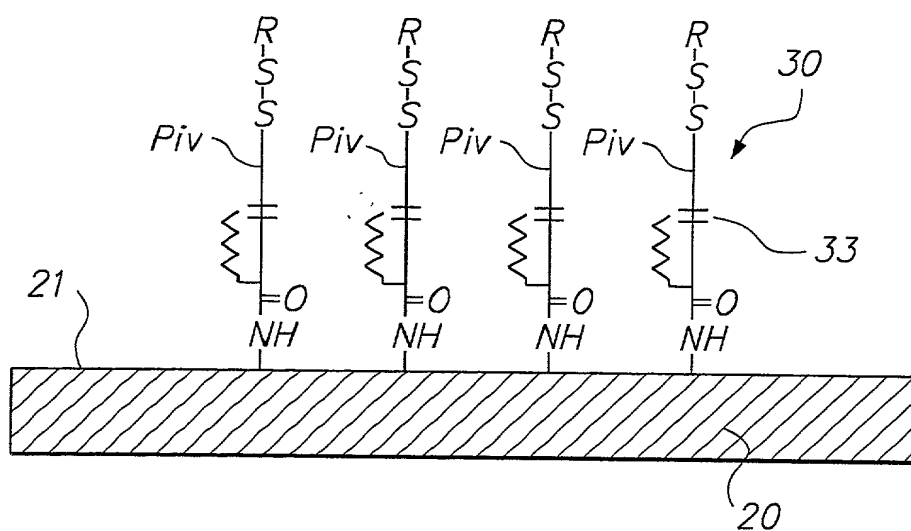


FIG. 8B

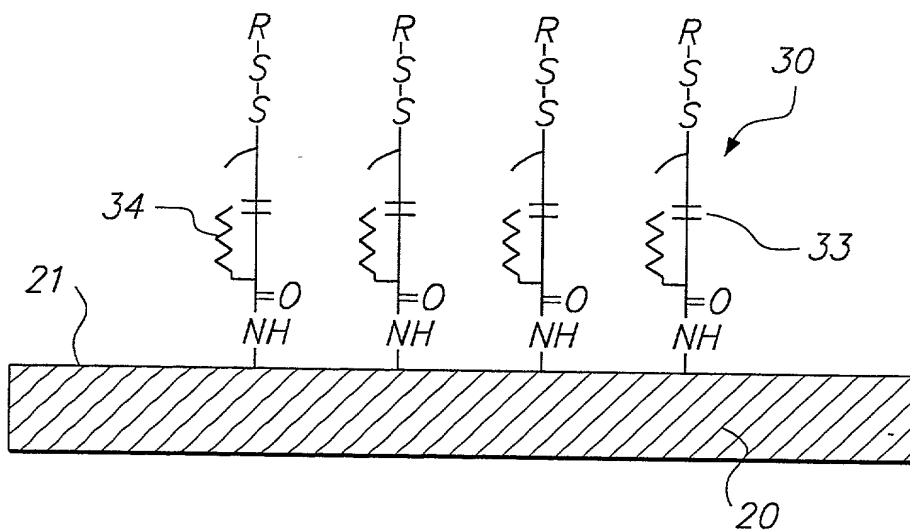


FIG. 9A

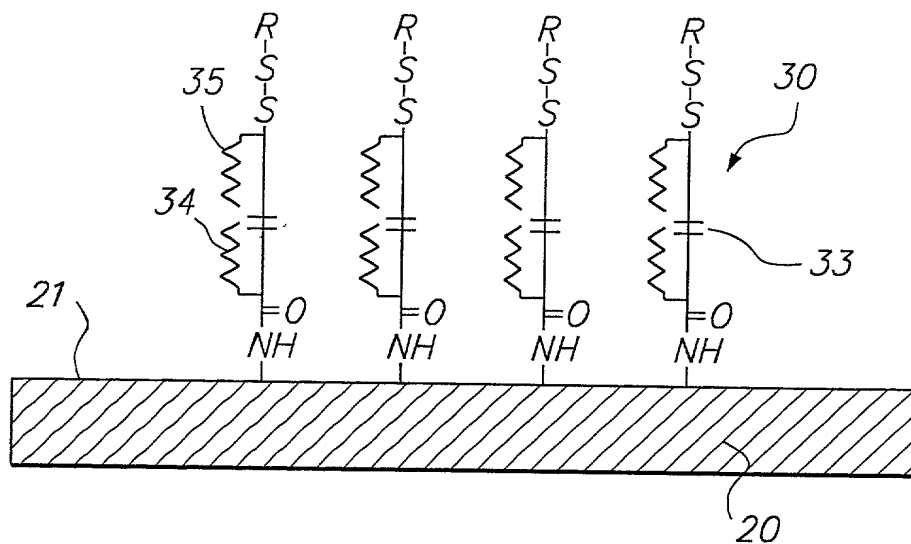
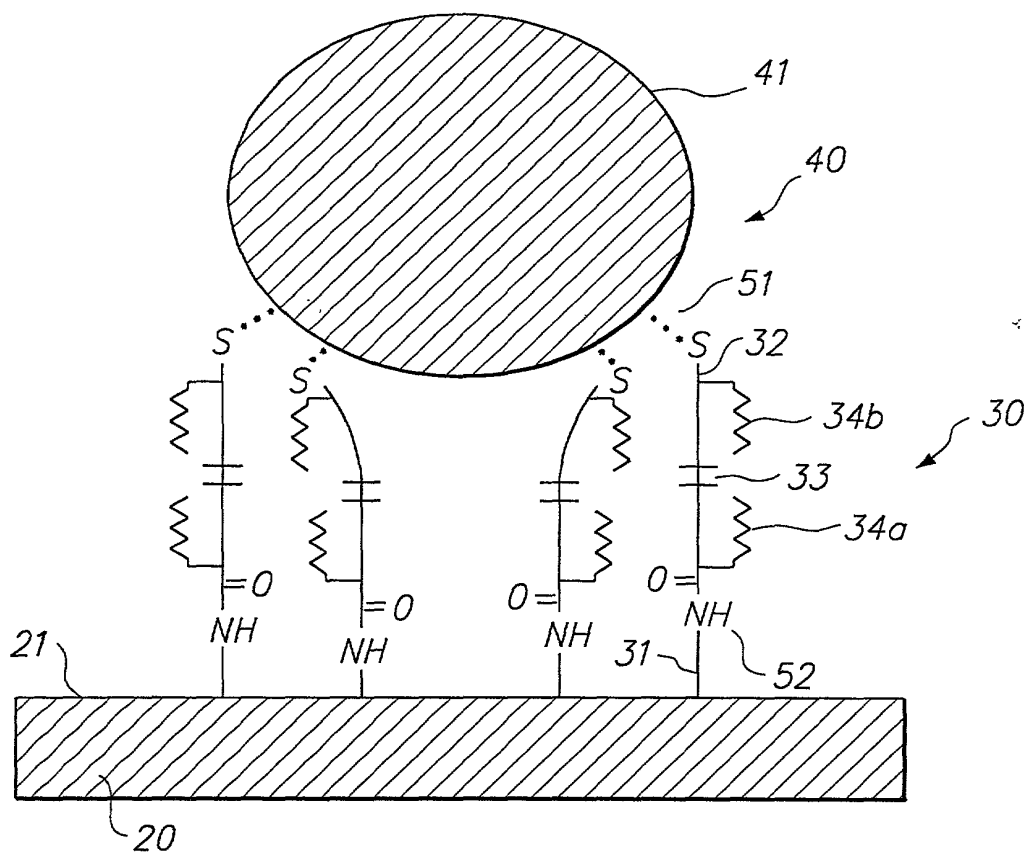
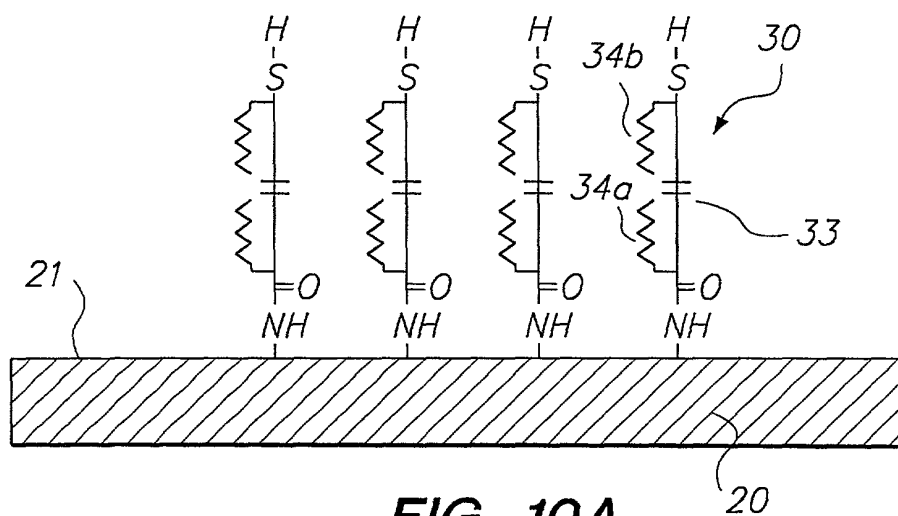
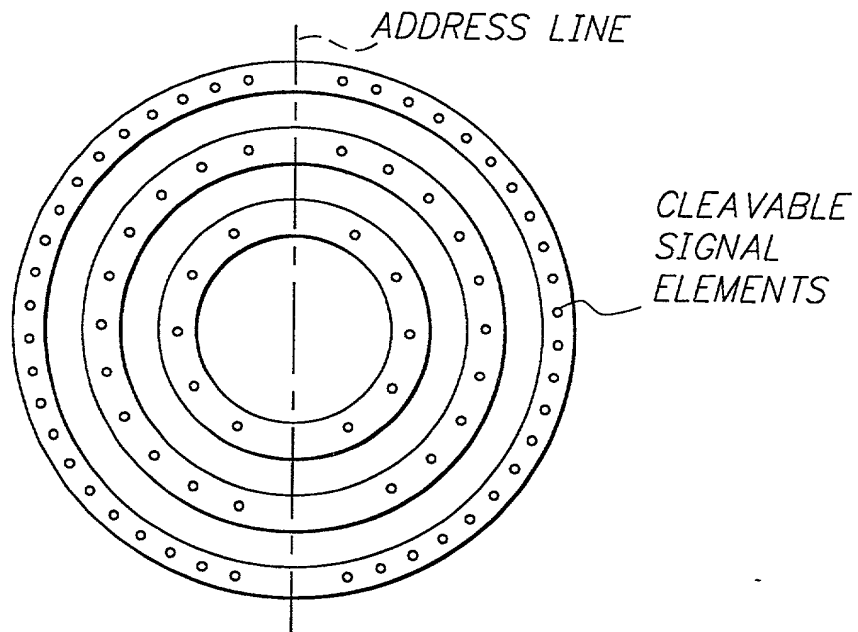
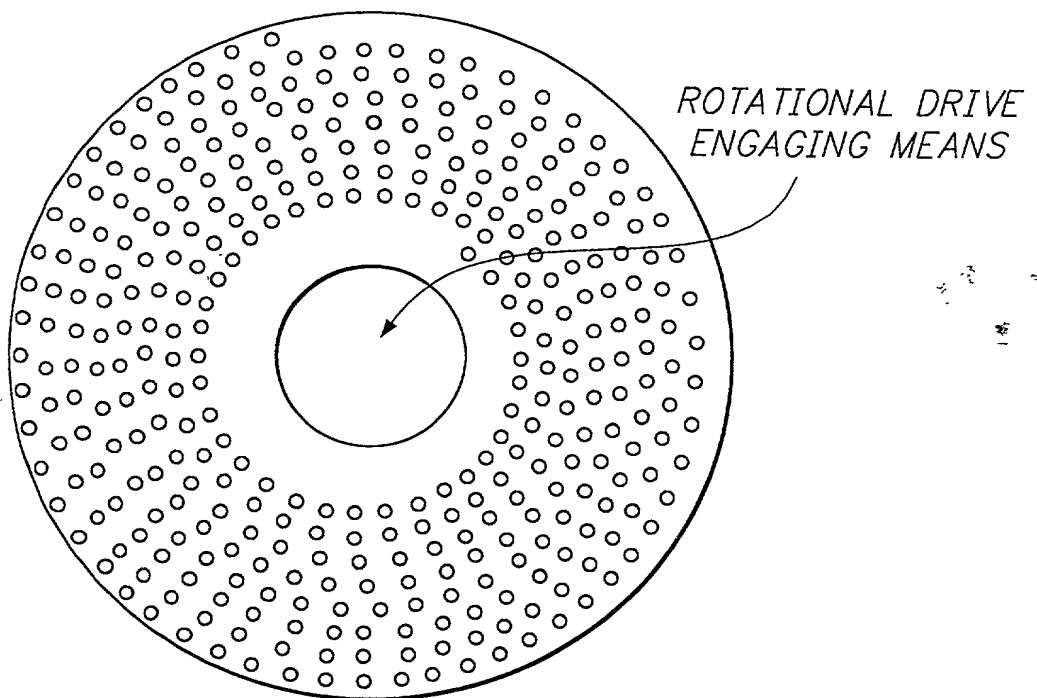


FIG. 9B

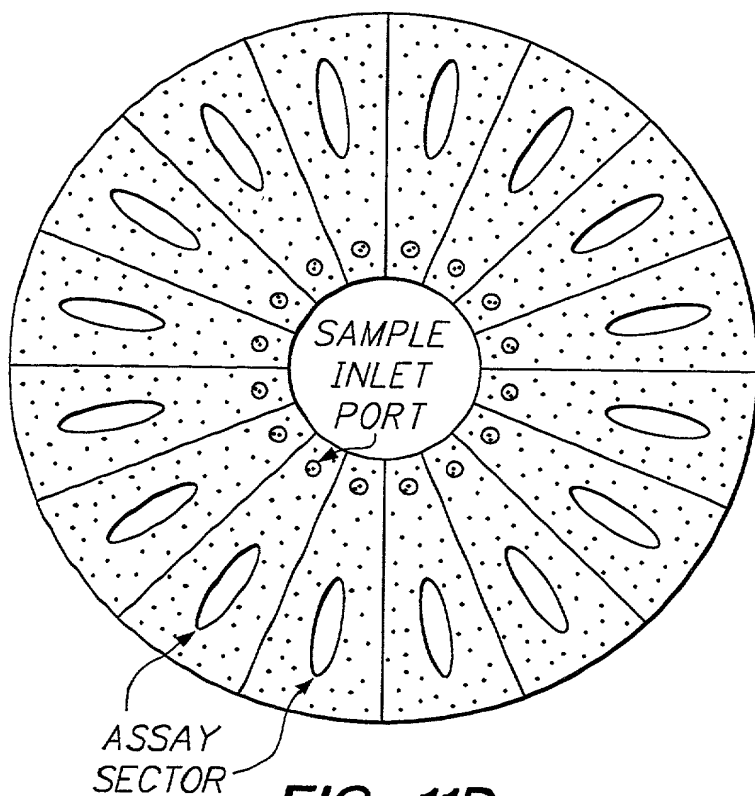
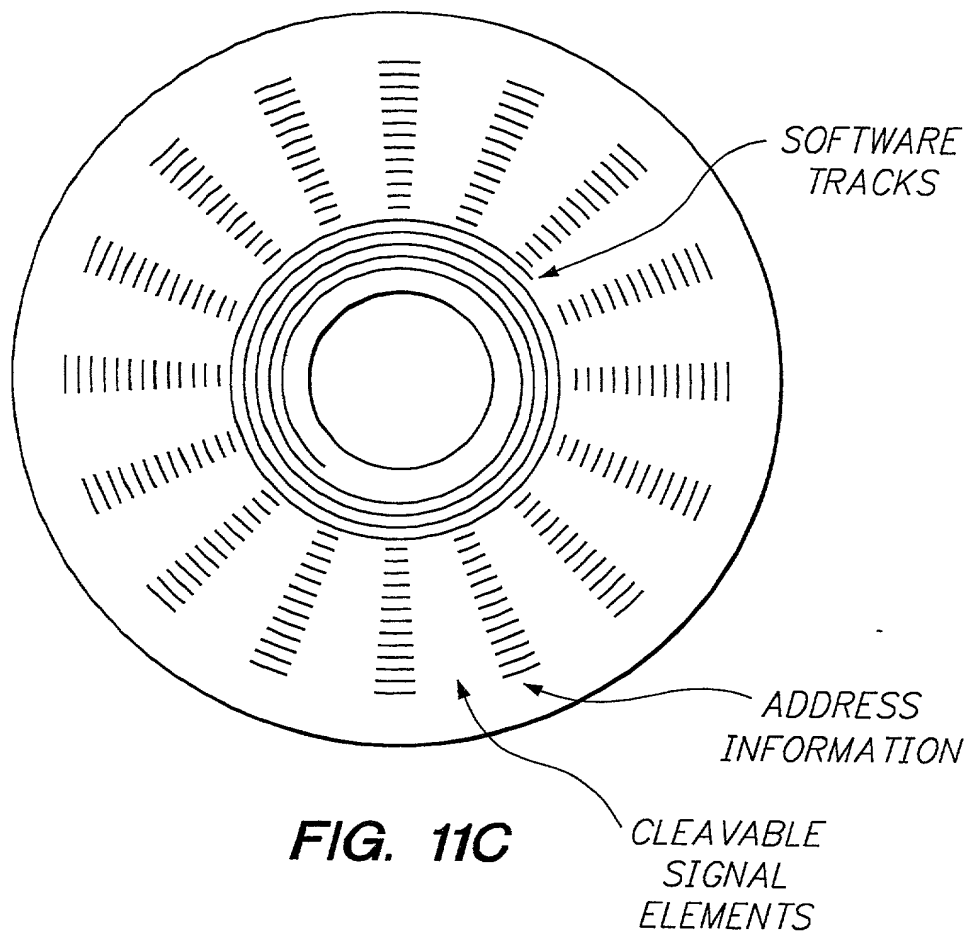




**FIG. 11A**



**FIG. 11B**



**FIG. 11D**



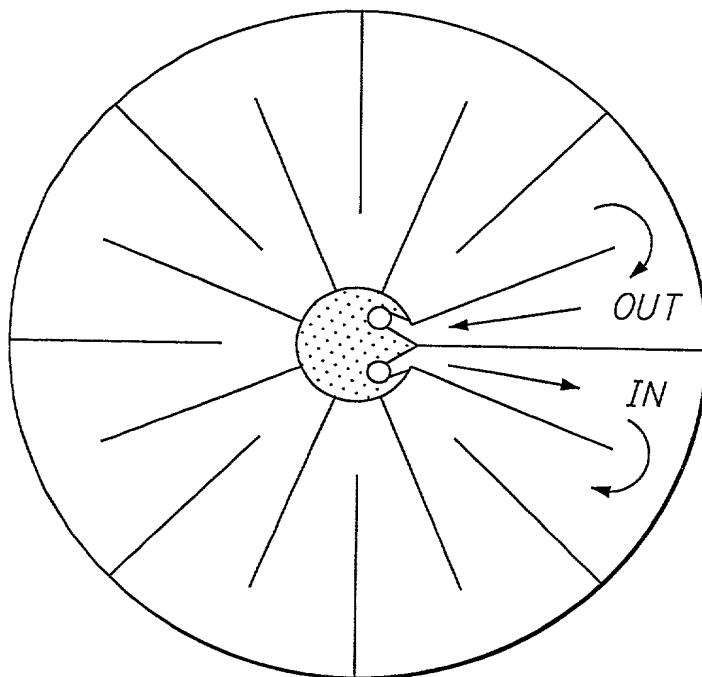


FIG. 11E

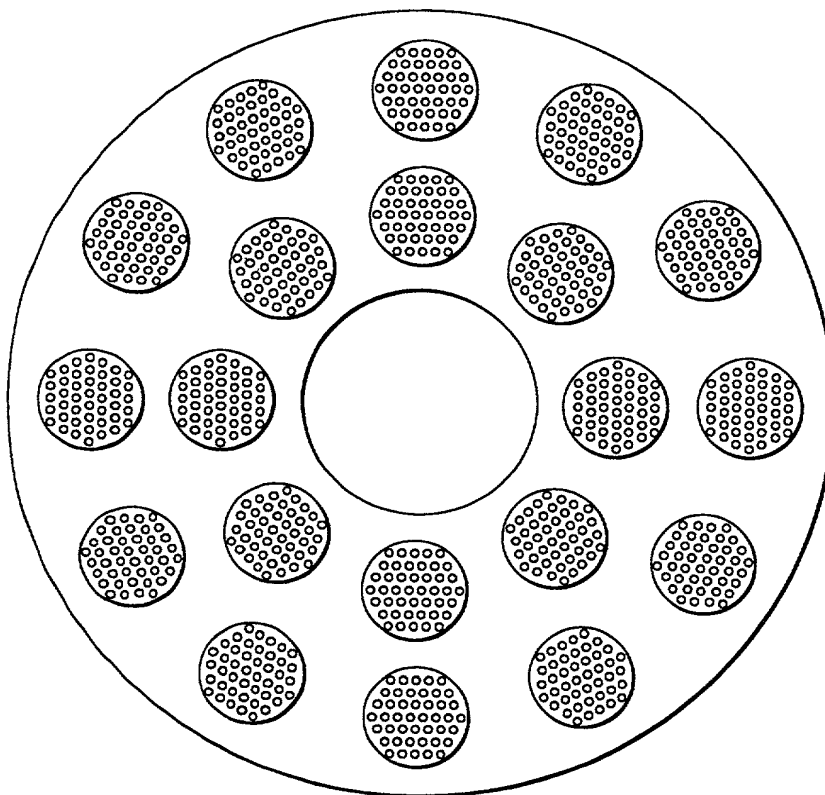
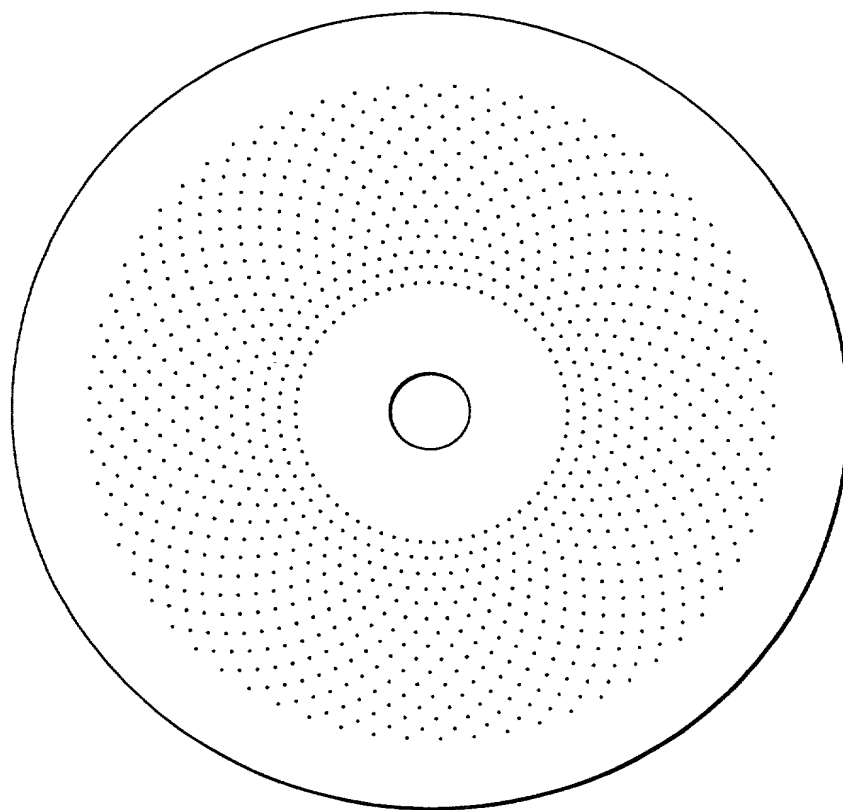
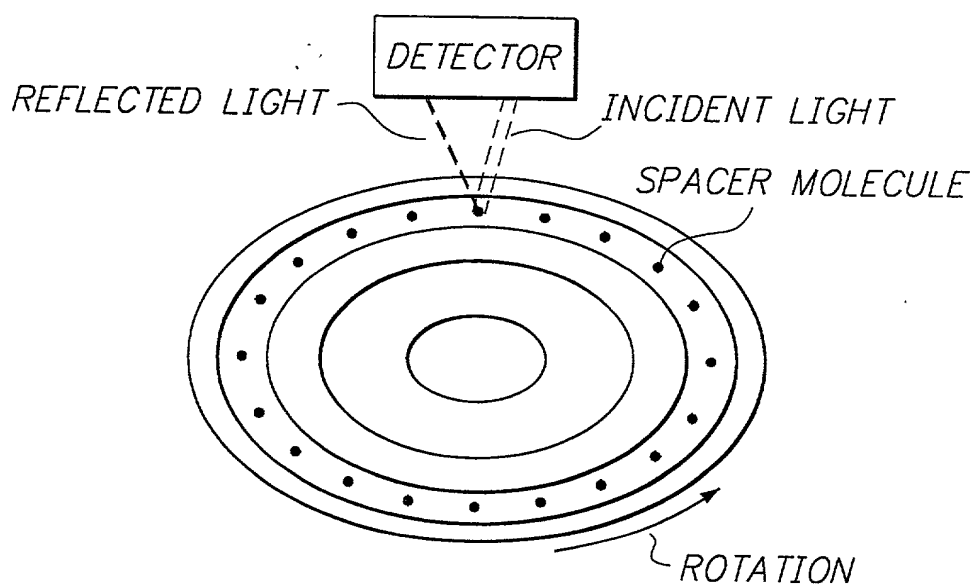


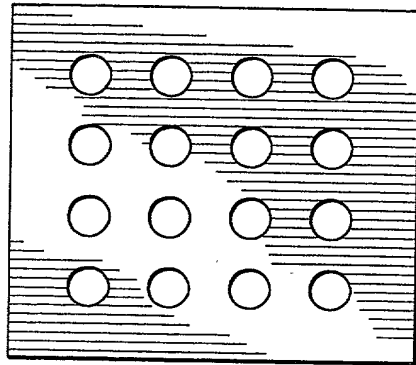
FIG. 11F



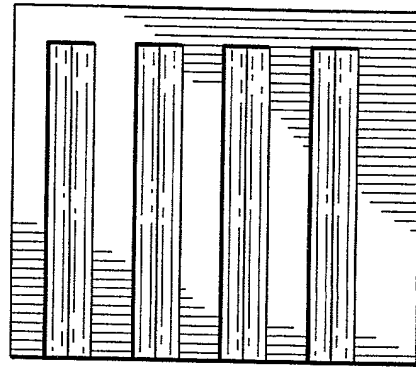
**FIG. 11G**



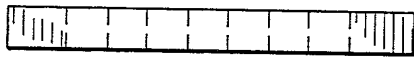
**FIG. 12**



**FIG. 13A**



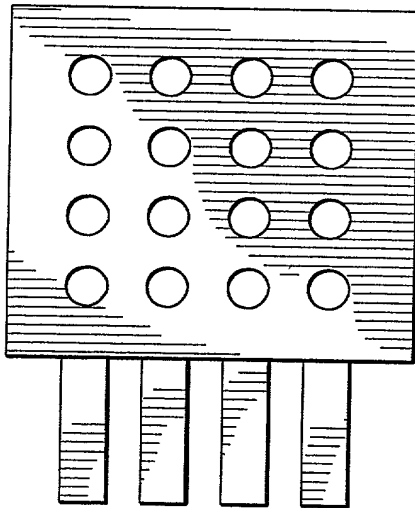
**FIG. 13C**



**FIG. 13B**



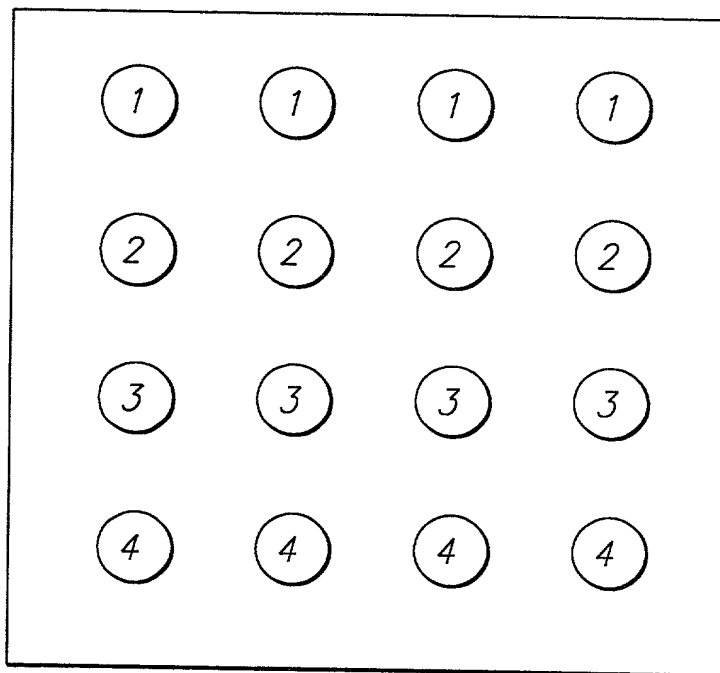
**FIG. 13D**



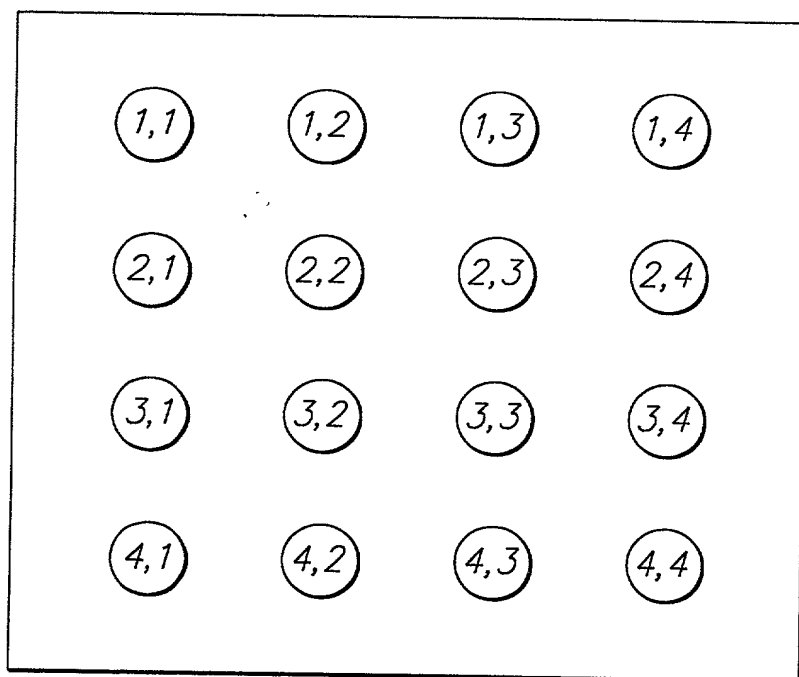
**FIG. 13E**



**FIG. 13F**



**FIG. 14A**



**FIG. 14B**

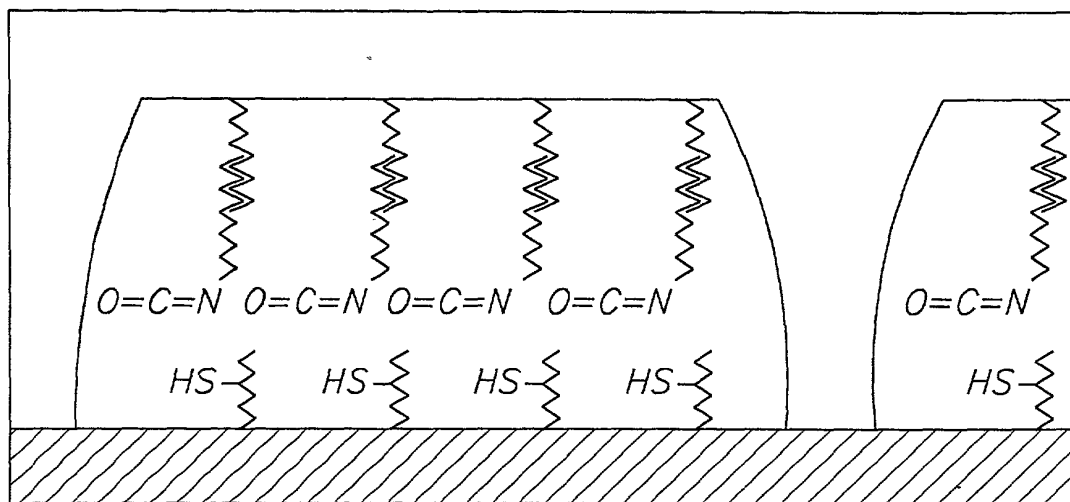


FIG. 15A

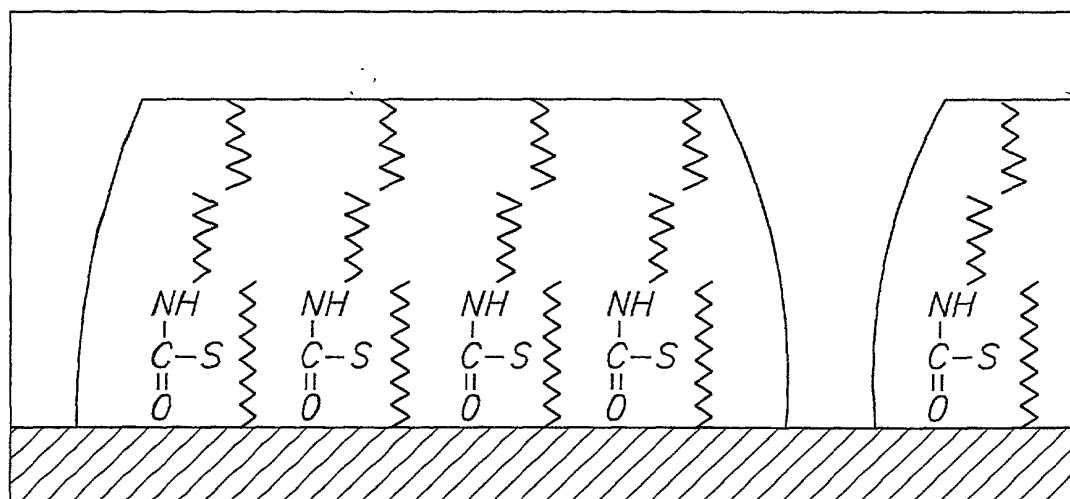


FIG. 15B

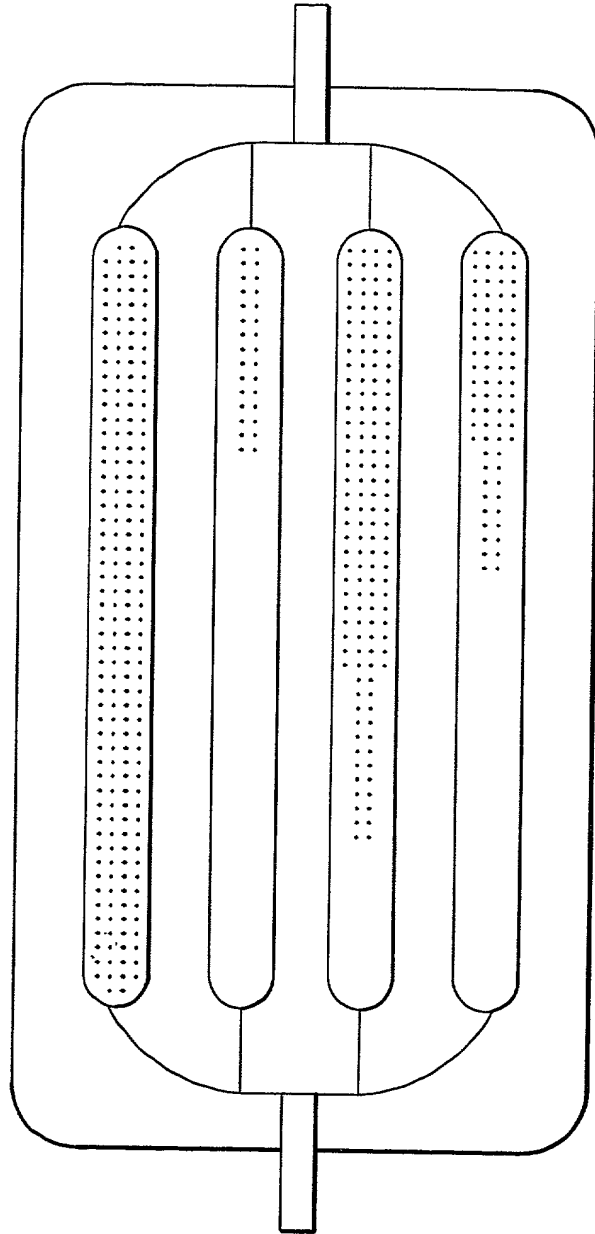
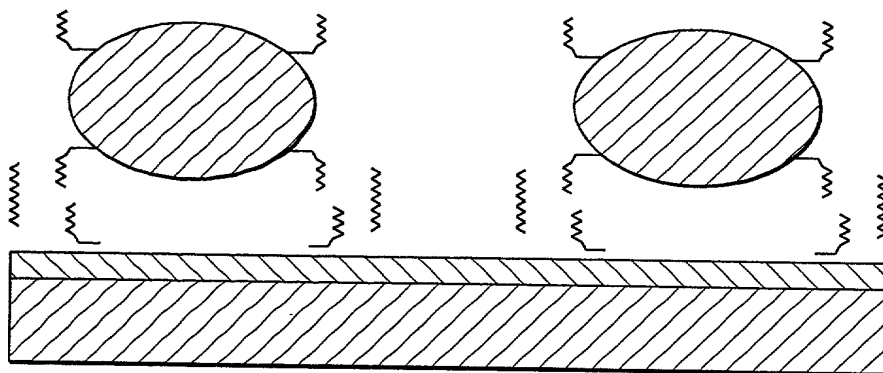
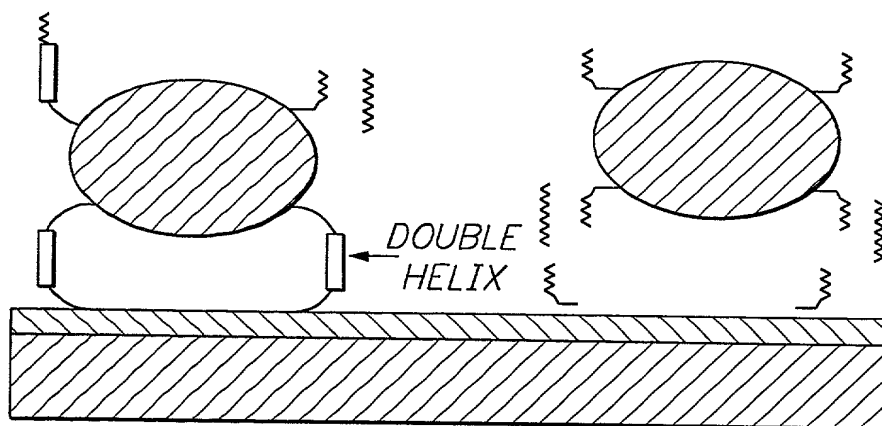


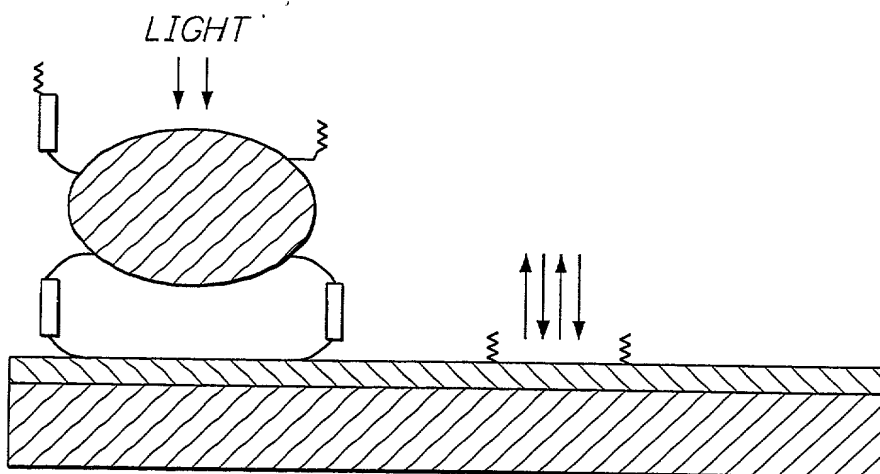
FIG. 16



**FIG. 17A**



**FIG. 17B**



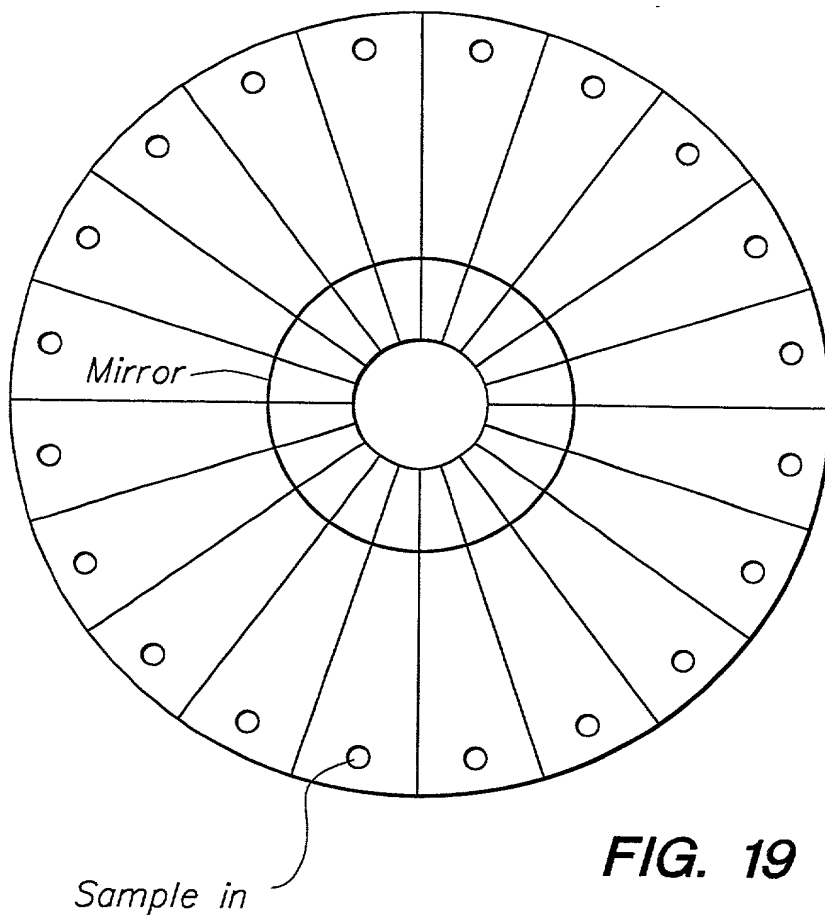
**FIG. 17C**

The diagram shows a cross-section of a cell membrane at the bottom, represented by a hatched layer. Several Y-shaped receptors are embedded in the membrane. Above the membrane, there are two large circular cells. The cell on the left is filled with small dots, representing granules, and has several Y-shaped receptors on its surface. The cell on the right is empty and also has Y-shaped receptors. Small triangles, representing antigens, are scattered around the cells. One triangle is shown being engulfed by the membrane of the empty cell, illustrating the process of phagocytosis.

A diagram showing a cross-section of a cell membrane. The membrane is represented by a horizontal layer with diagonal hatching. Embedded within and attached to this layer are several proteins and lipids. Some proteins are transmembrane, spanning the membrane. Others are peripheral, attached to the surface. Some proteins have multiple subunits. Lipids are shown as small circles with two wavy tails, some embedded in the membrane and others attached to proteins.

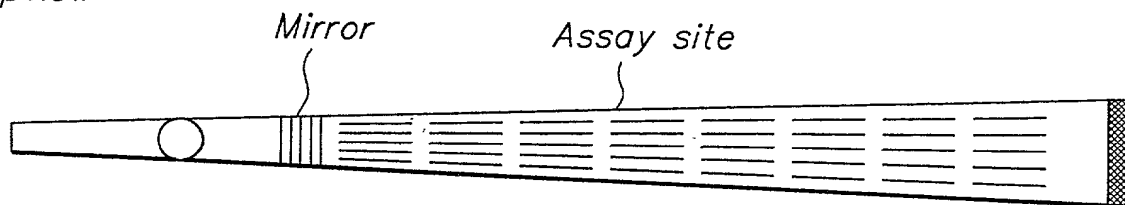
**FIG. 18C**





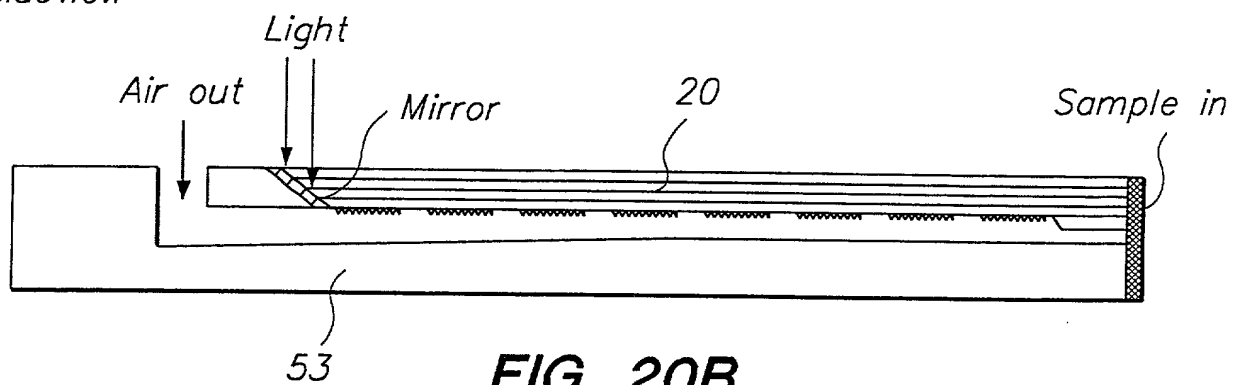
**FIG. 19**

Topview

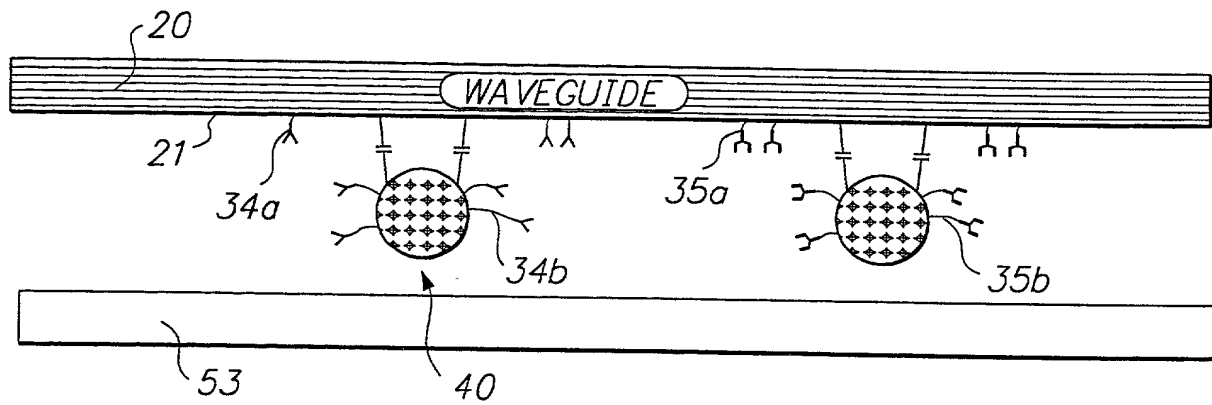


**FIG. 20A**

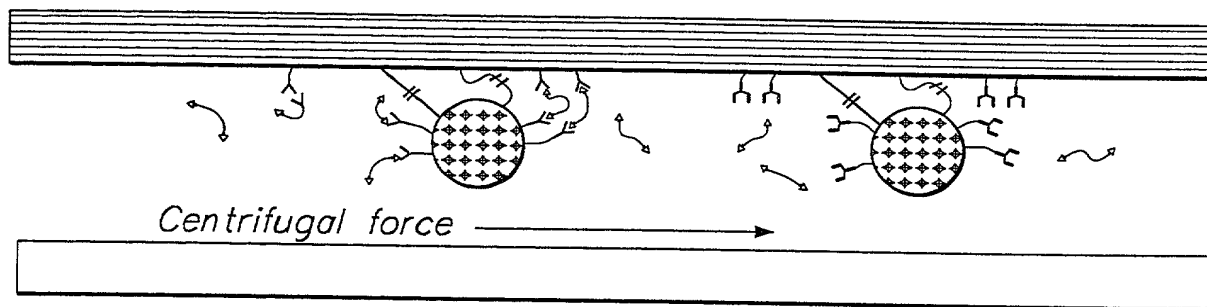
Sideview



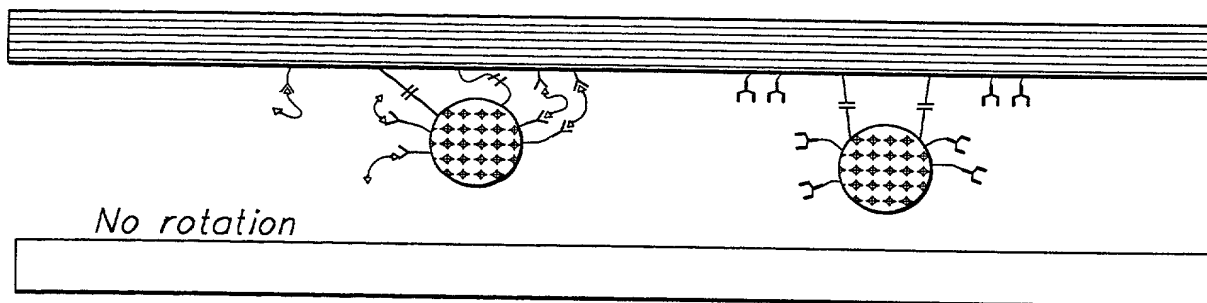
**FIG. 20B**



**FIG. 21A**



**FIG. 21B**



**FIG. 21C**

FIG. 21D

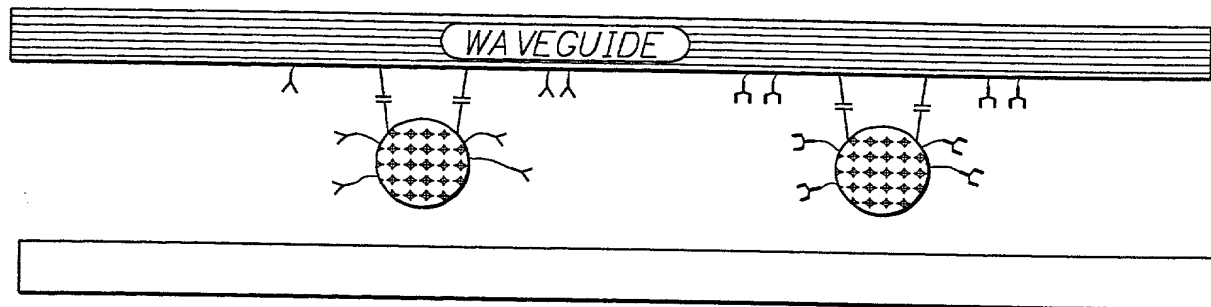


FIG. 21E

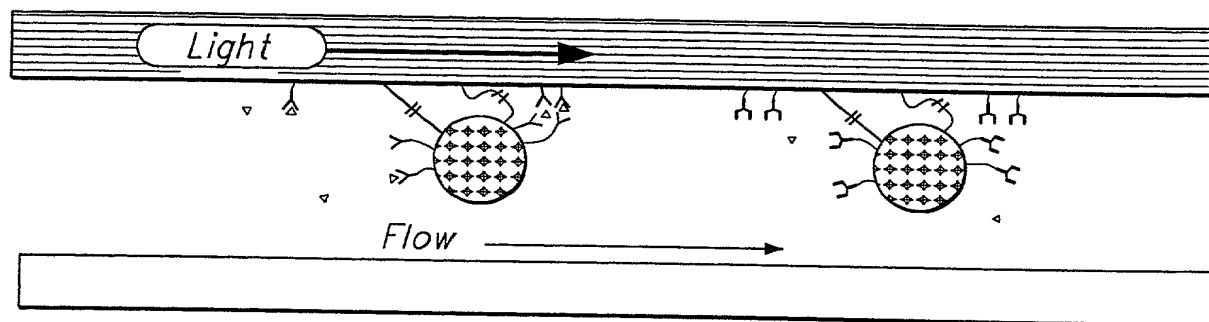
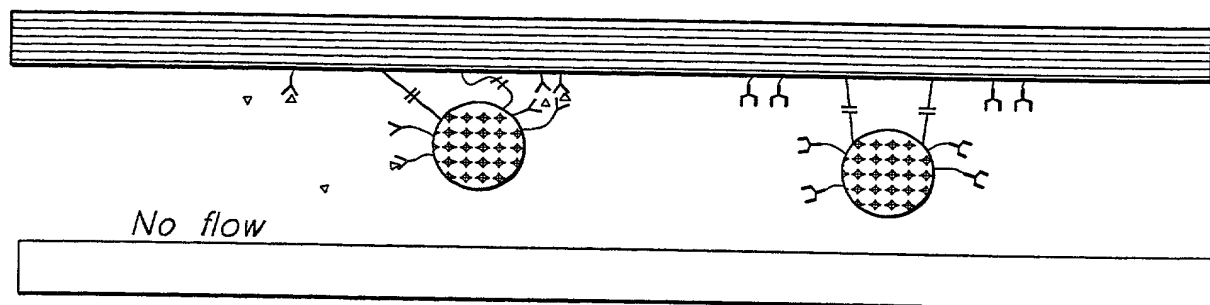
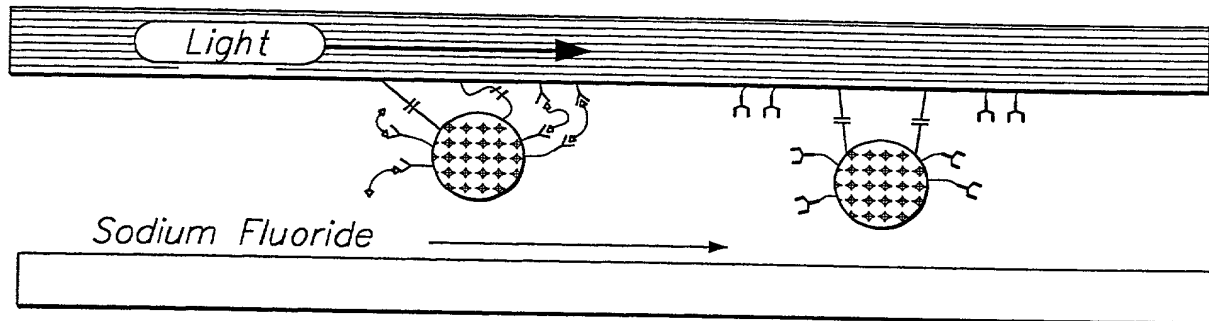


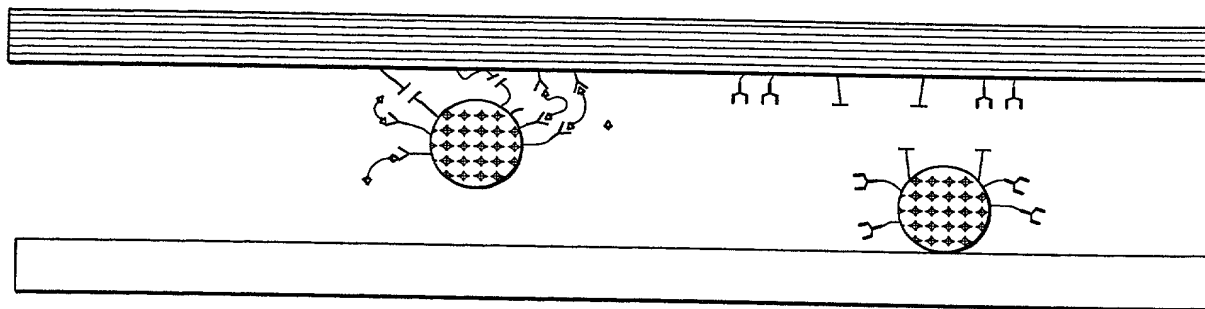
FIG. 21F



**FIG. 22A**



**FIG. 22B**



**FIG. 22C**

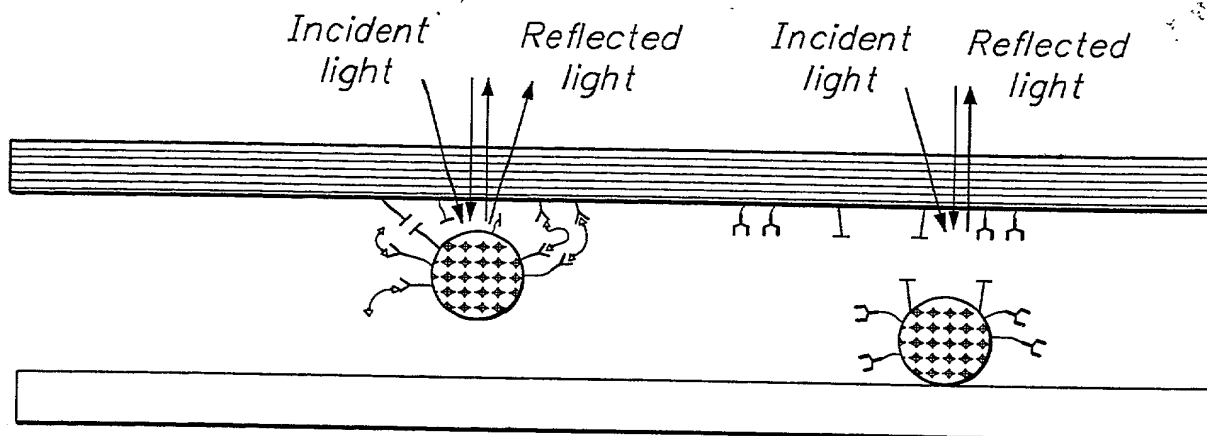


FIG. 23A

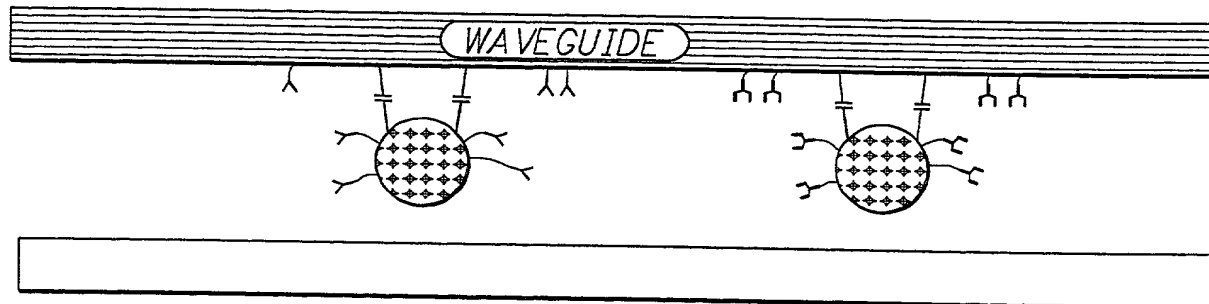


FIG. 23B

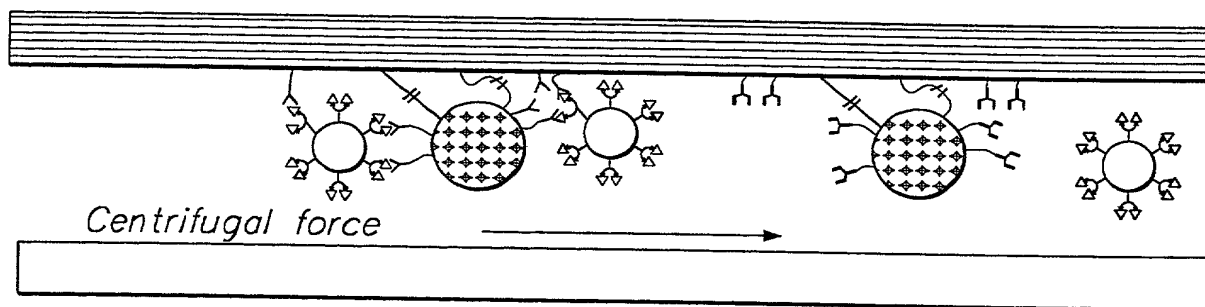
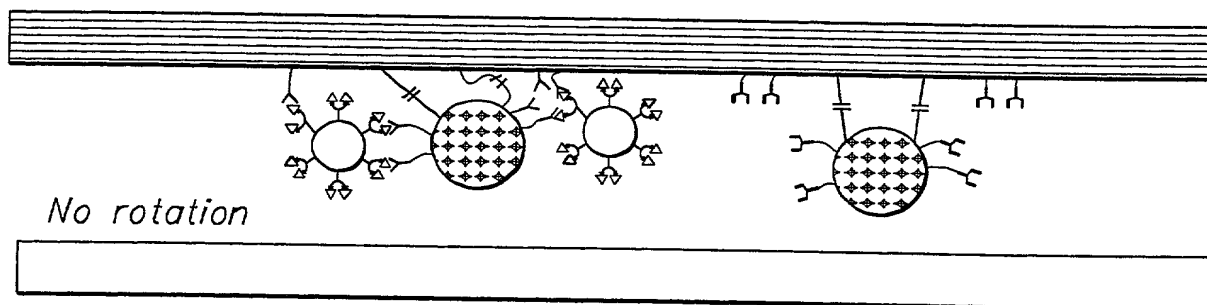


FIG. 23C



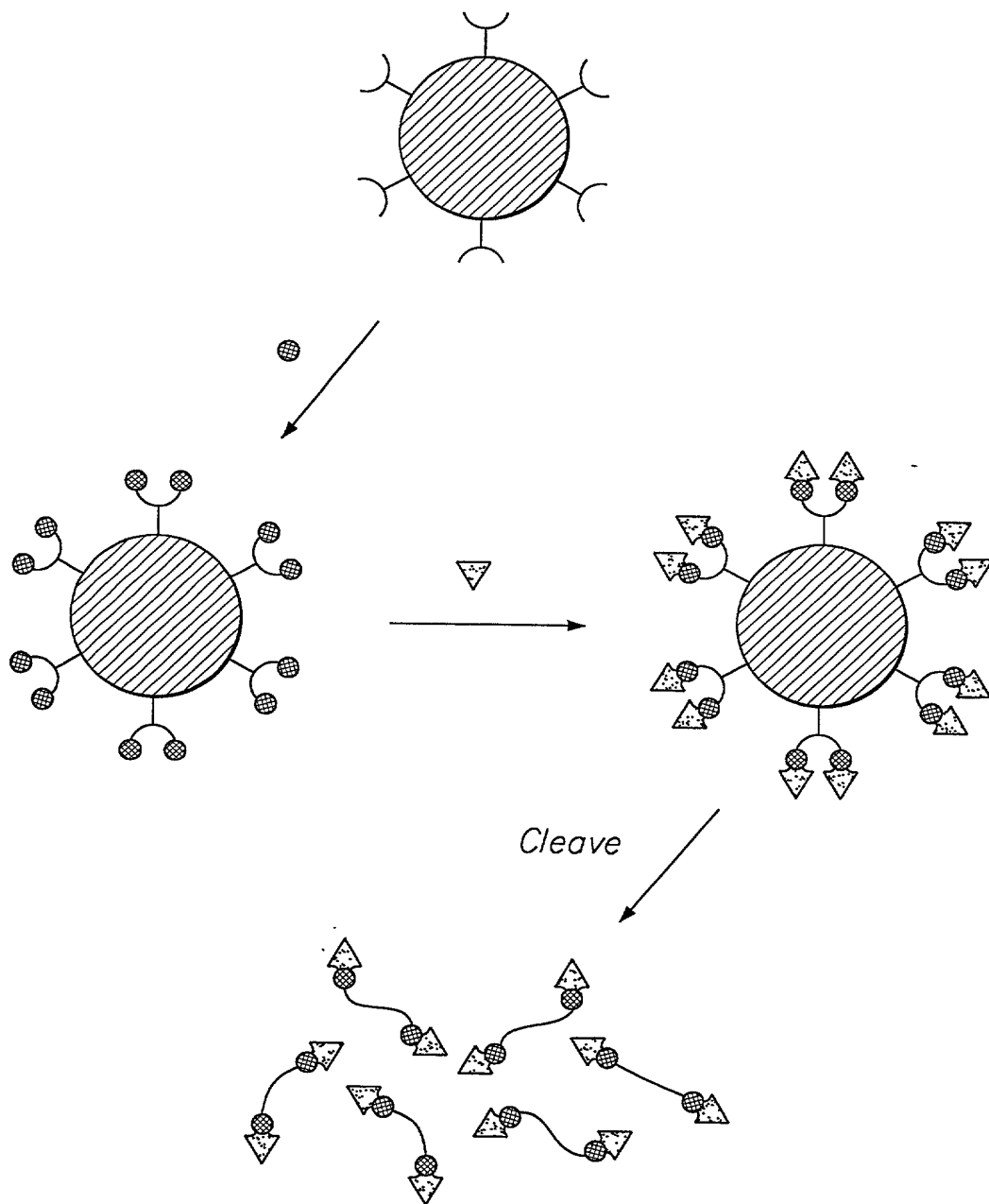


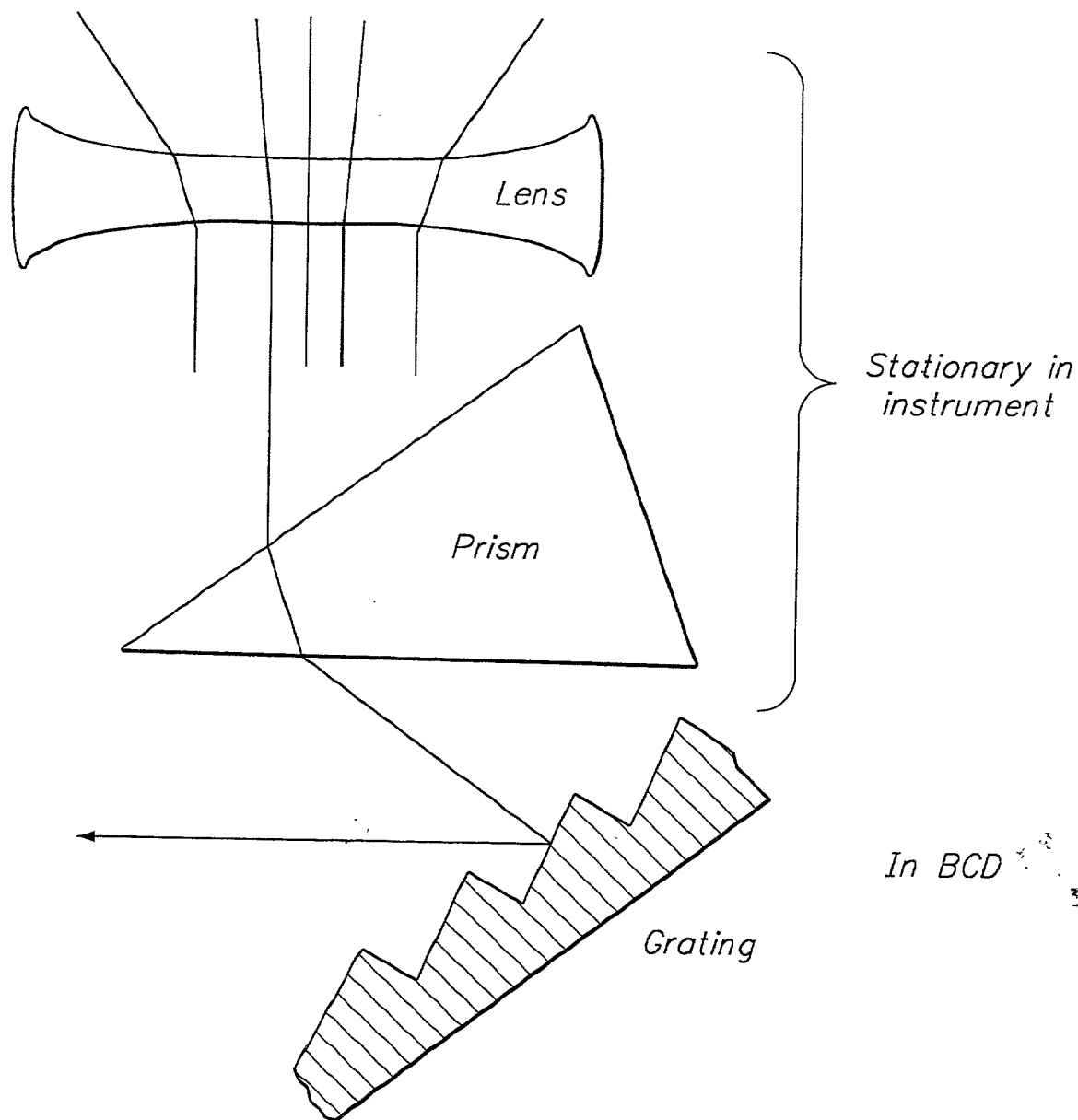
FIG. 24

Diagram illustrating a protein structure with a sequence of amino acids: Ala, Arg, Asn, ..., Val, Ala, Arg, ..., Thr, Tyr, Val. The structure shows a zigzag backbone with side chains branching off. An arrow points to the Val residue, indicating a mutation site.

The diagram illustrates a protein structure with a mutation site. The protein is represented as a series of connected segments, each labeled with an amino acid code. The segments are arranged in a zig-zag pattern. The amino acids shown are: Ala, Arg, Ala, Asn, Val, Ala, Arg, Thr, Tyr, Val. The Thr segment is marked with a star, indicating a mutation site. The diagram also shows the continuation of the protein chain with '...' and 'AA' (amino acid) labels.

**FIG. 25**

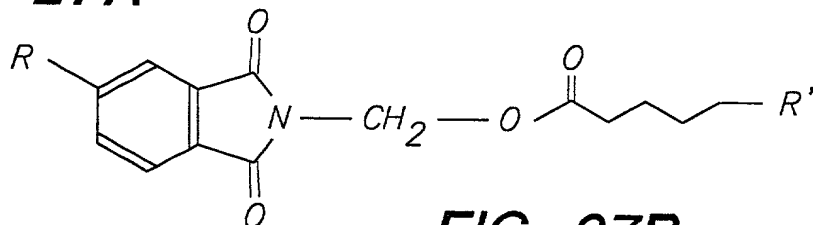
FOE220" E33T4660



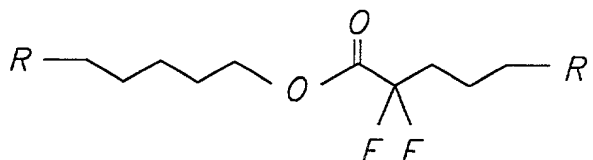
**FIG. 26**



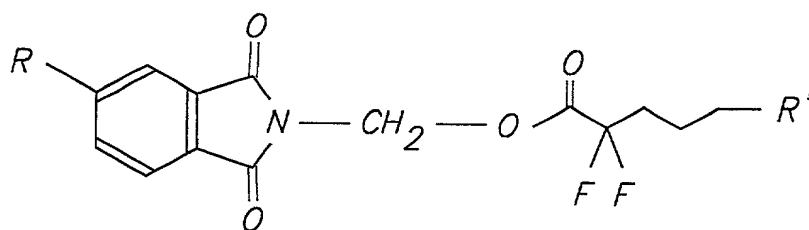
**FIG. 27A**



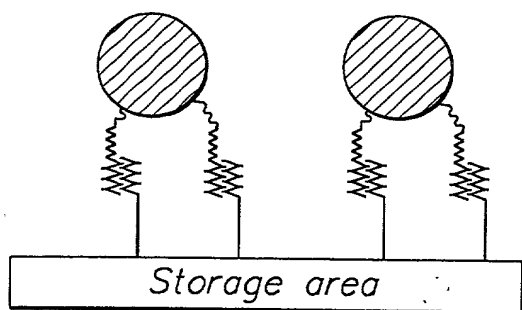
**FIG. 27B**



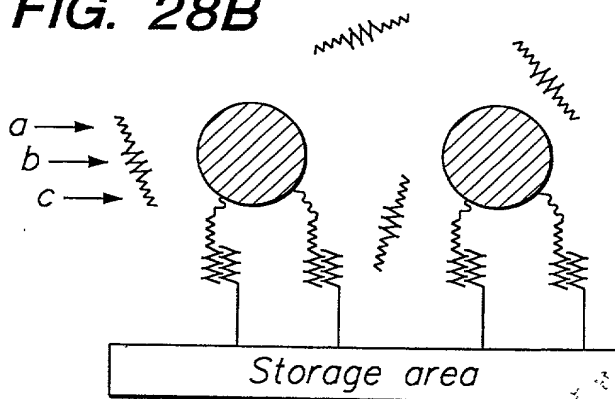
**FIG. 27C**



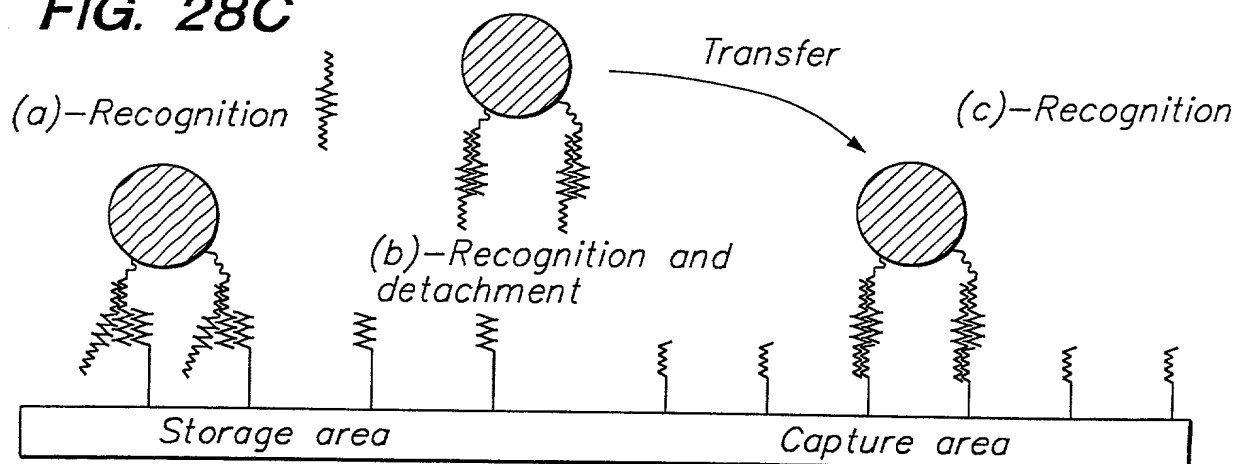
**FIG. 28A**



**FIG. 28B**



**FIG. 28C**



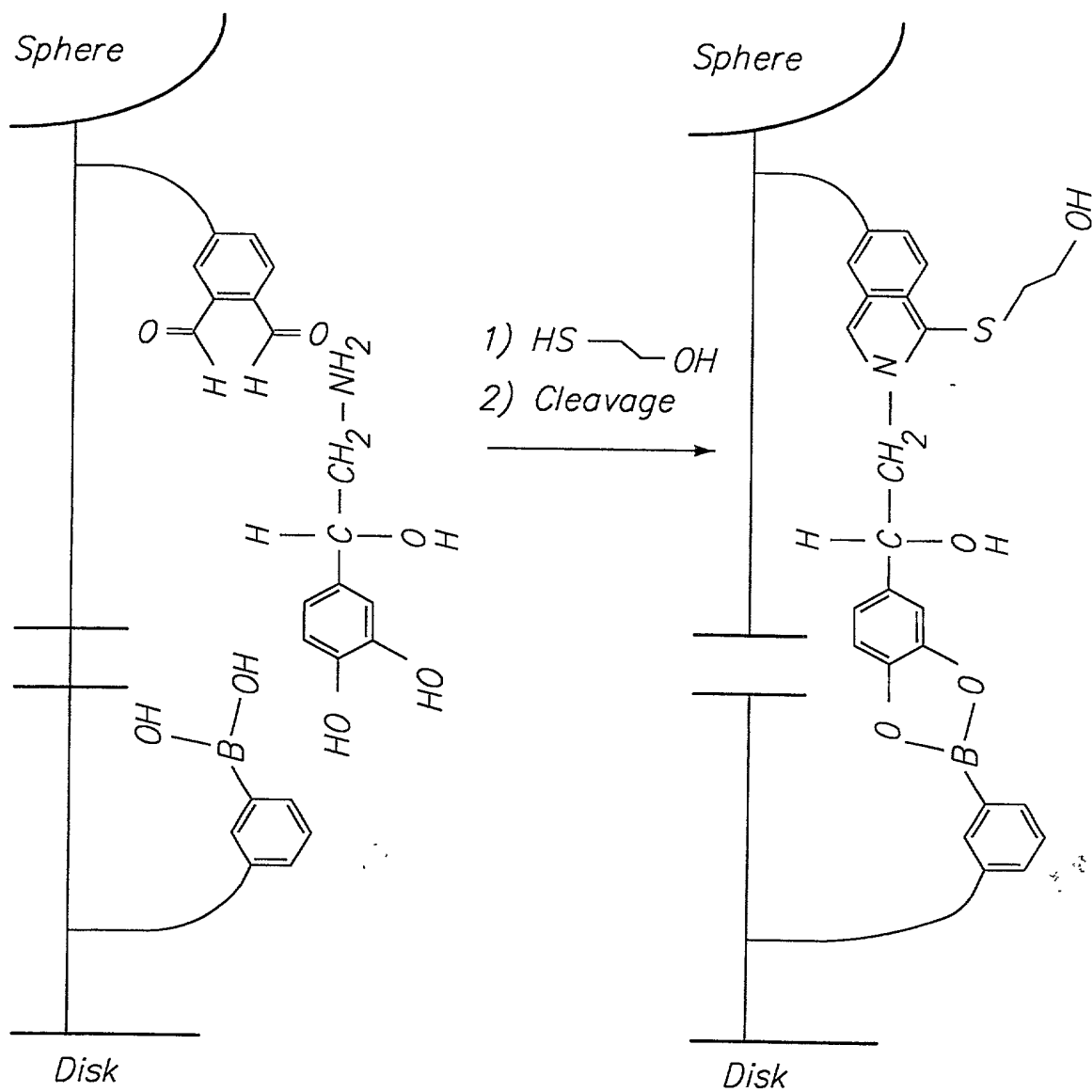


FIG. 29

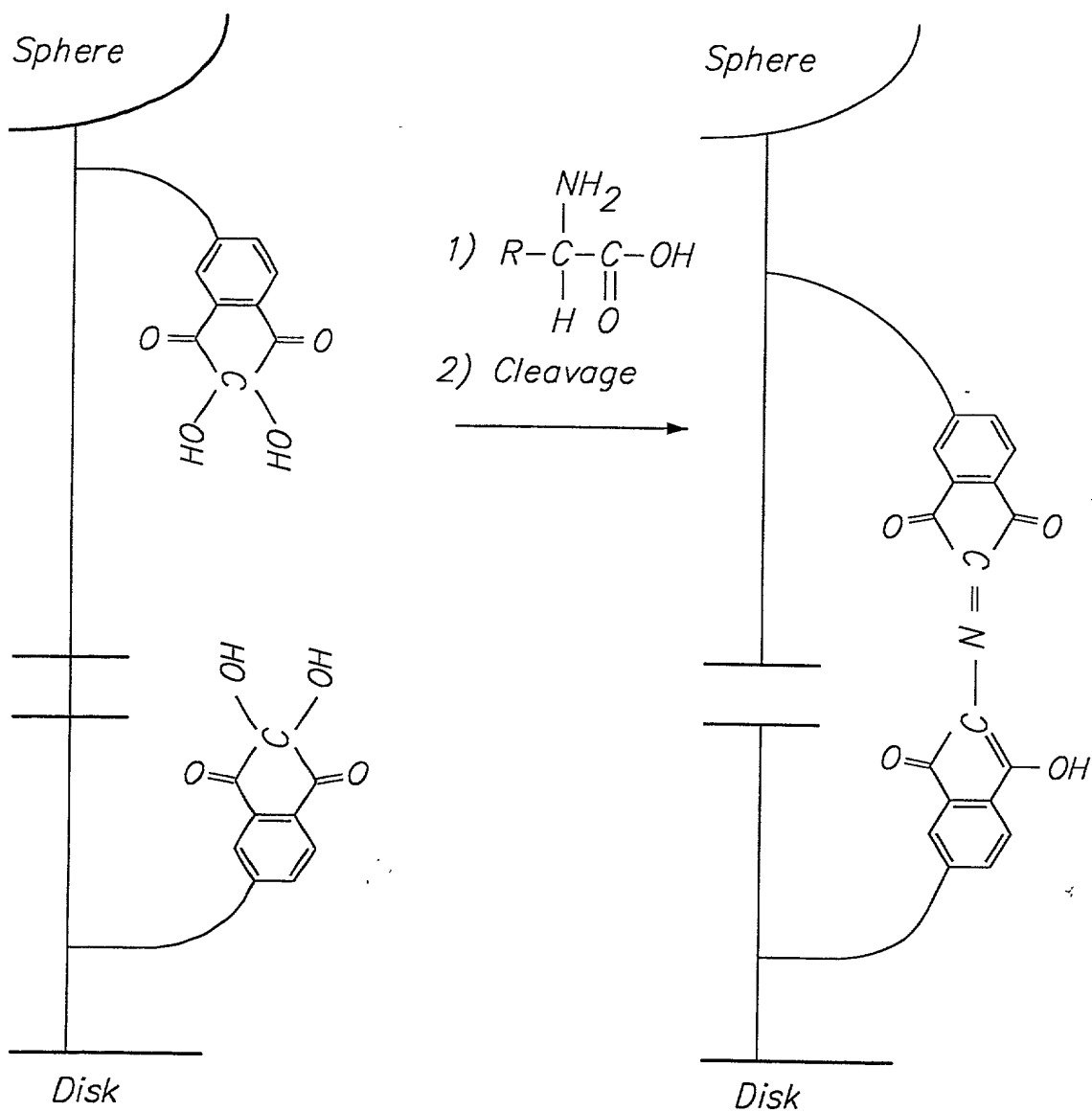


FIG. 30

FIG. 31A

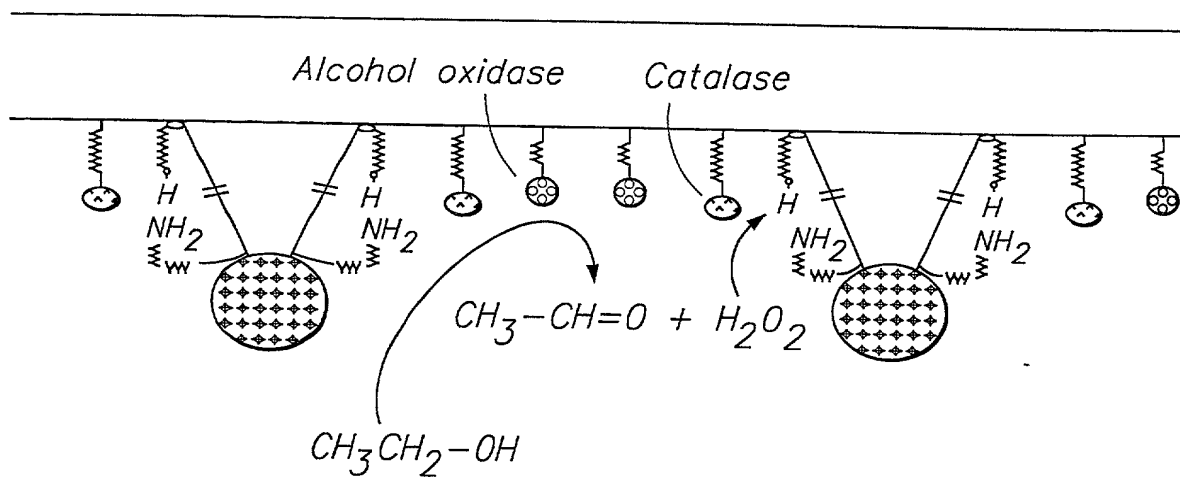


FIG. 31B

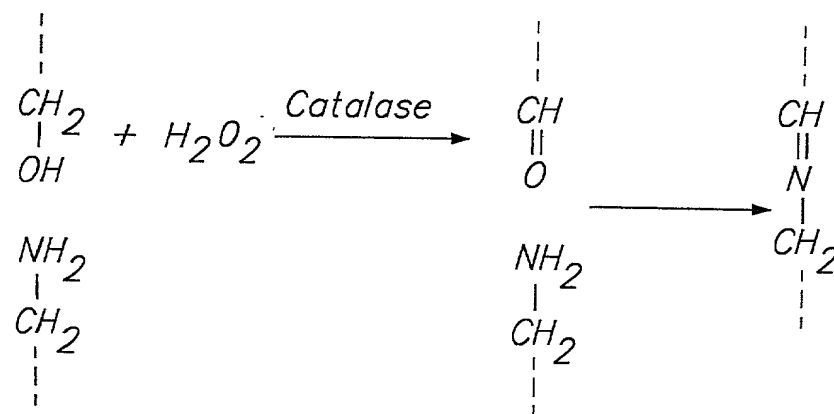


FIG. 32A

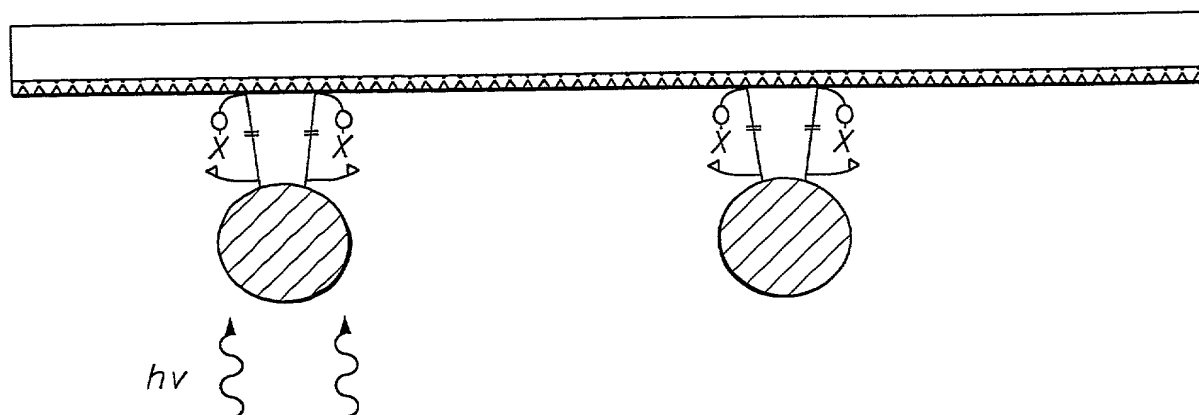


FIG. 32B

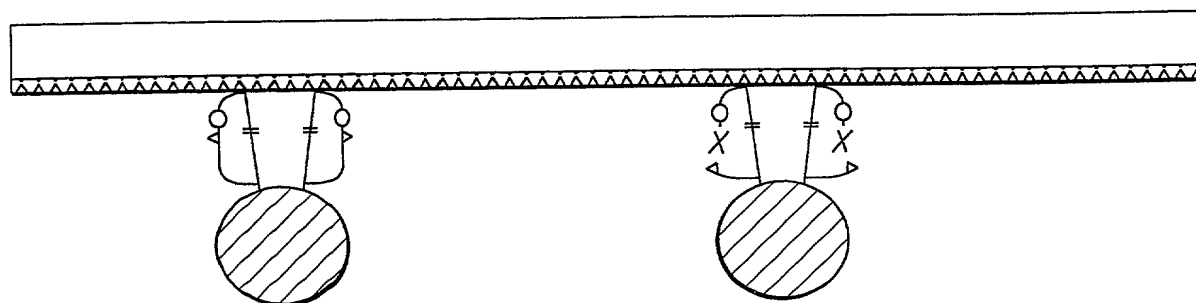
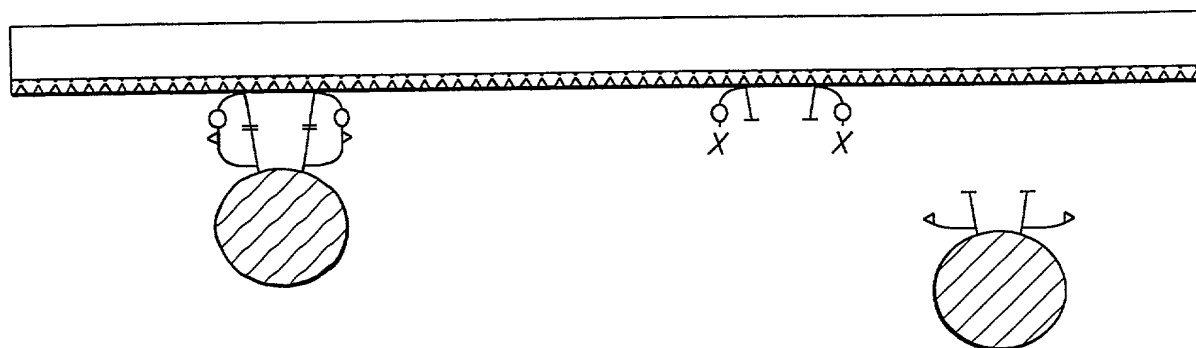
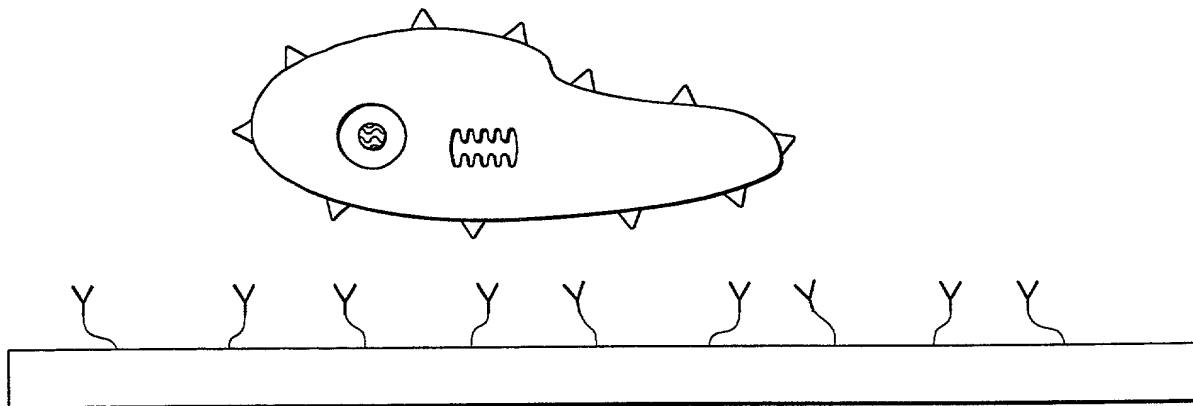


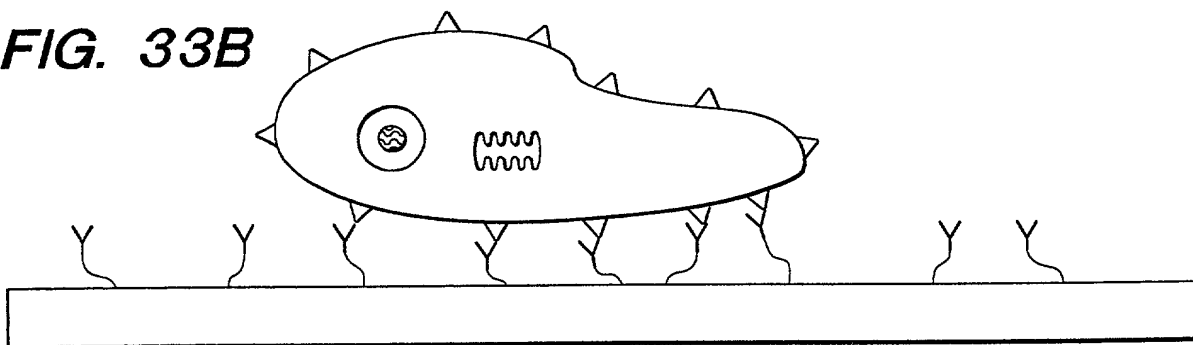
FIG. 32C



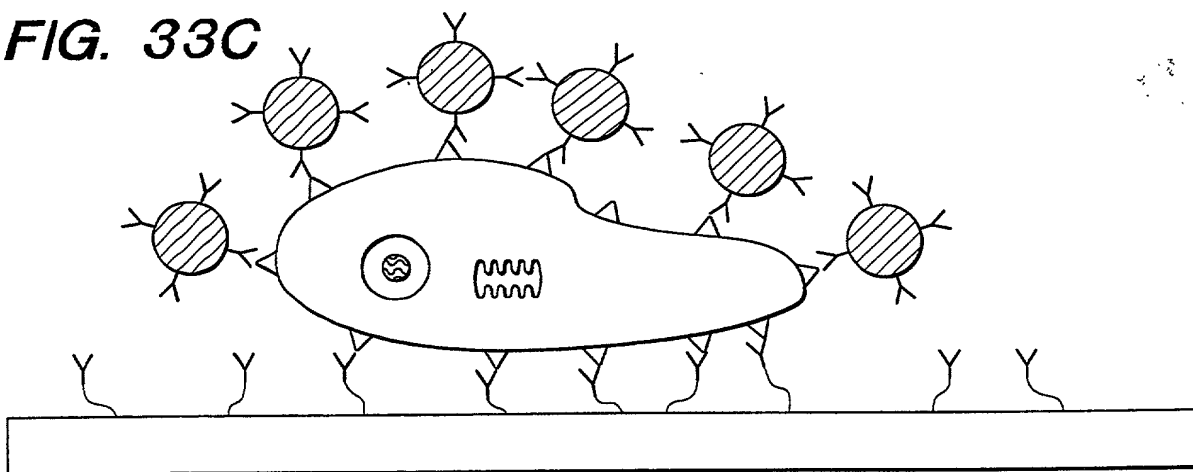
**FIG. 33A**



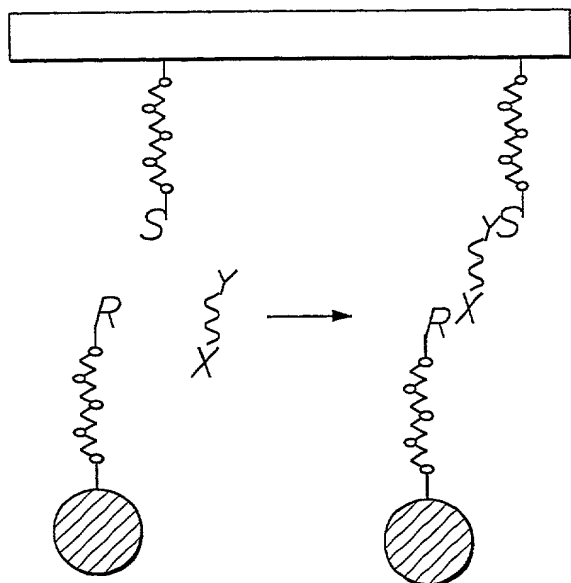
**FIG. 33B**



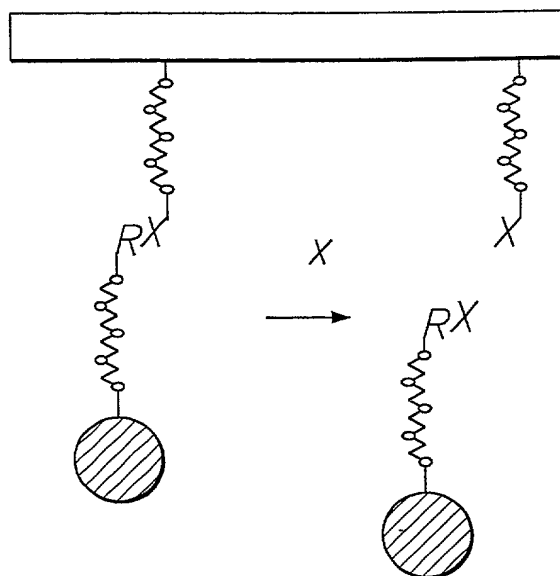
**FIG. 33C**



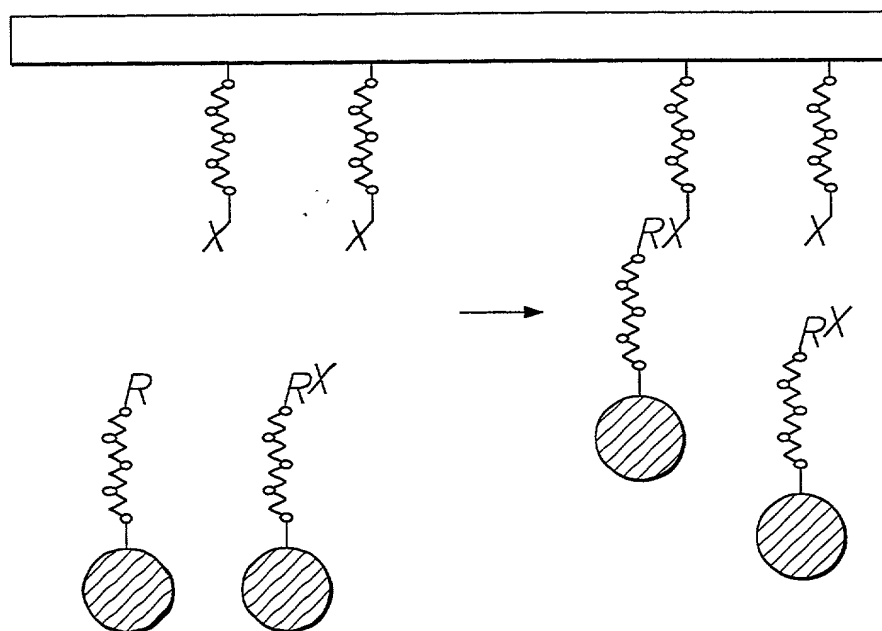
**FIG. 34A**



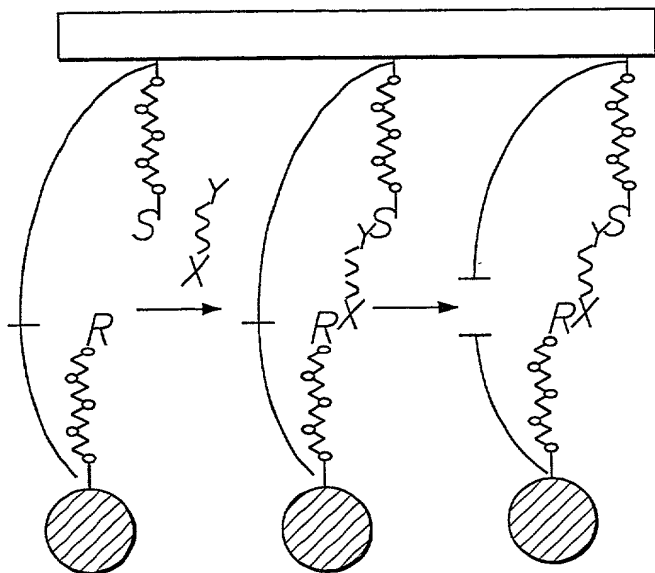
**FIG. 34B**



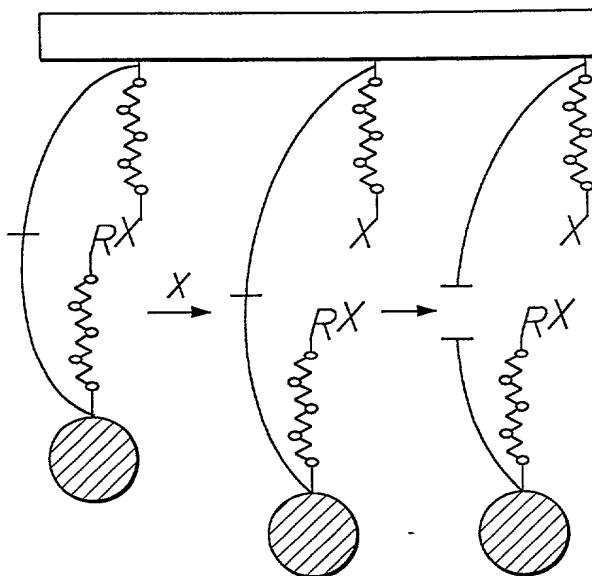
**FIG. 34C**



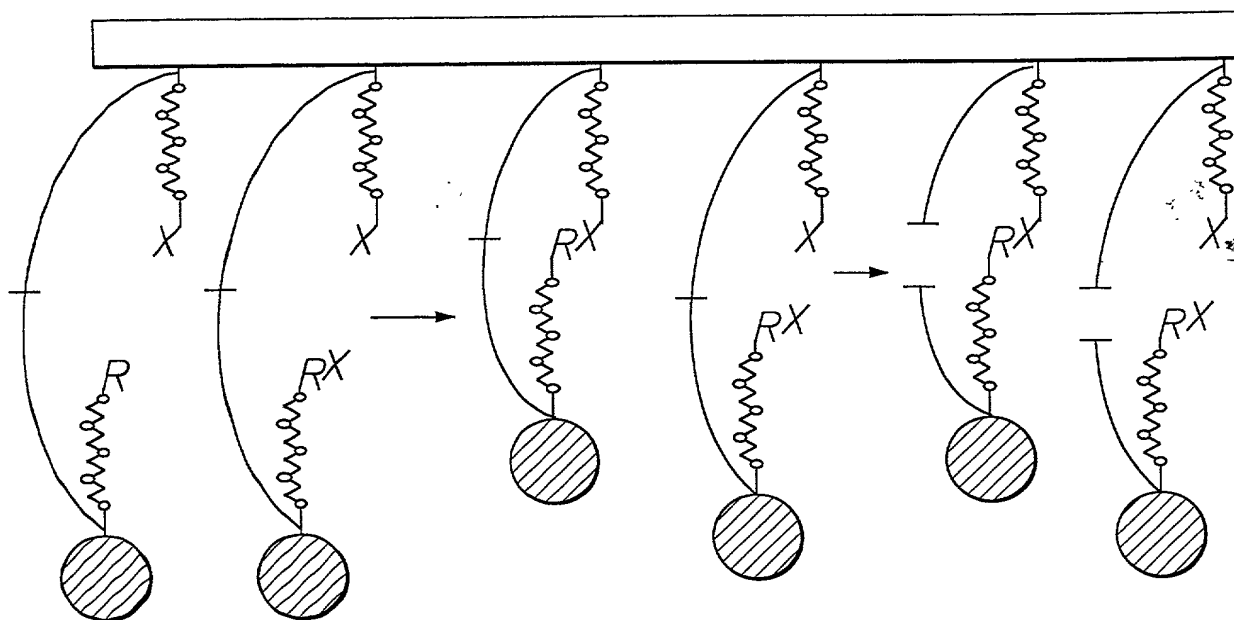
**FIG. 35A**



**FIG. 35B**



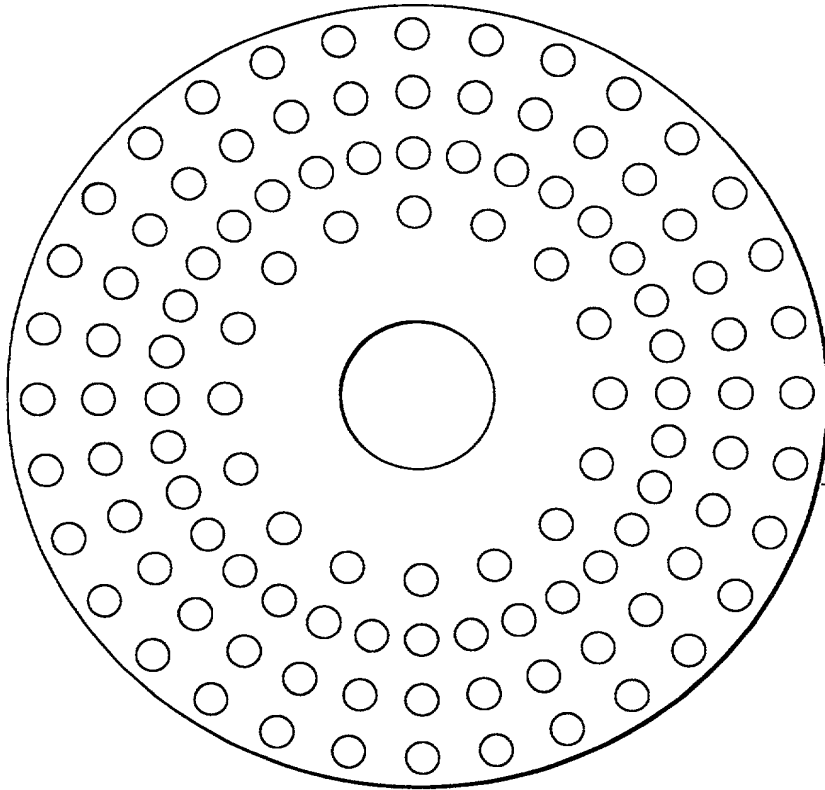
**FIG. 35C**



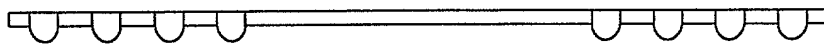


TOP OF CASE

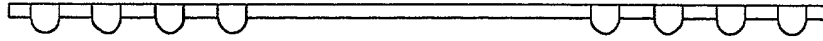
*Top View*



*Cross section*

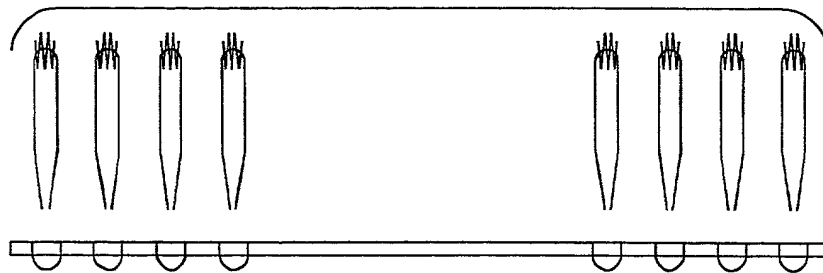


**FIG. 36**

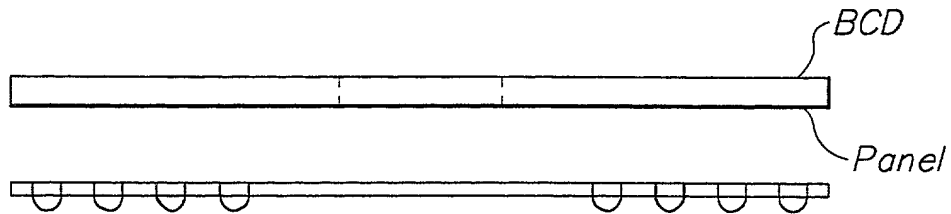


**FIG. 37A**

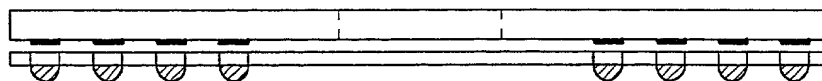
*8-Tip pipetting station*



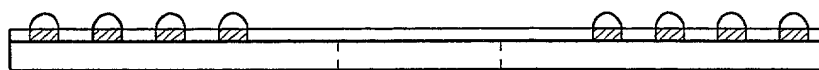
**FIG. 37B**



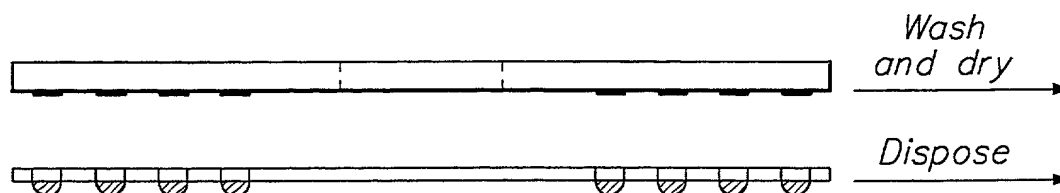
**FIG. 37C**



**FIG. 37D**



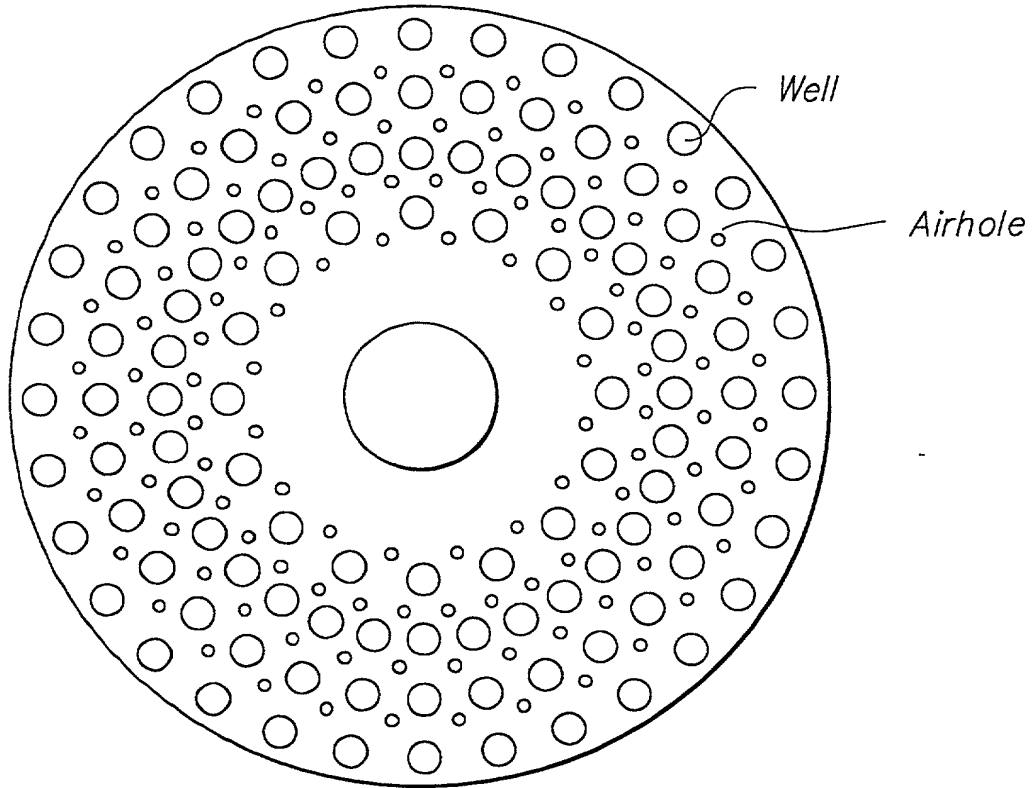
**FIG. 37E**



**FIG. 37F**

10:21:00 6/23/16 650

*Topview*

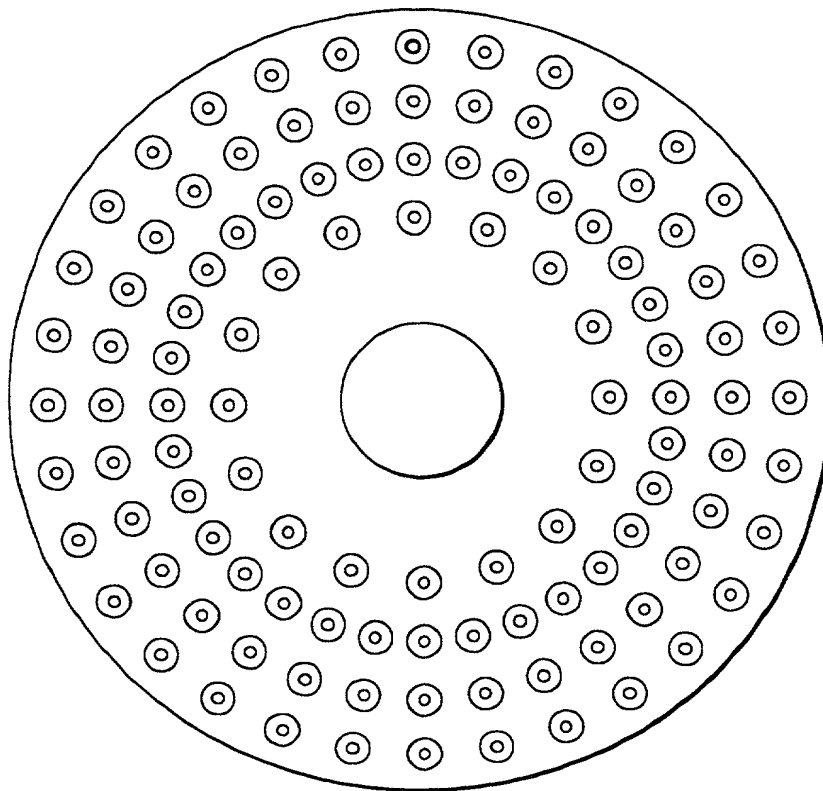


*Cross section*



**FIG. 38**

*Topview*

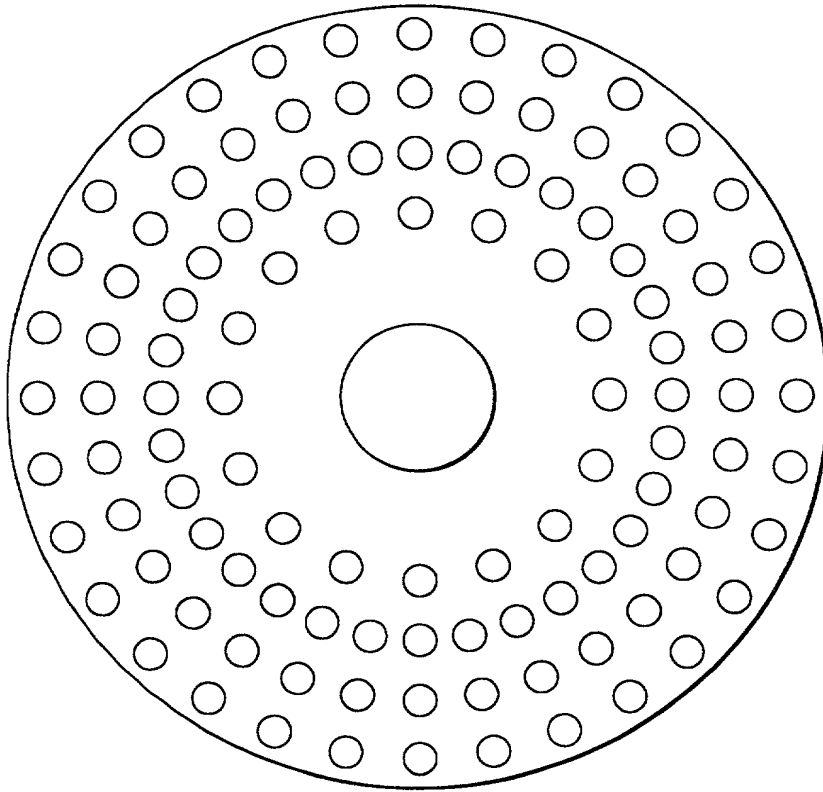


*Cross section*

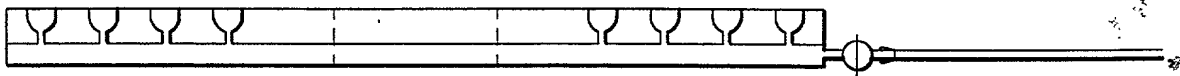


**FIG. 39**

Top View



Cross section



**FIG. 40**

**FIG. 41A**

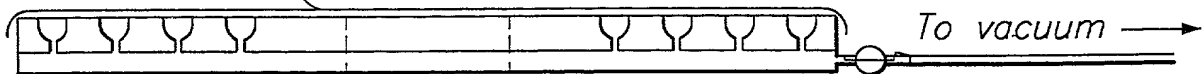
*Cross section*



*To vacuum*

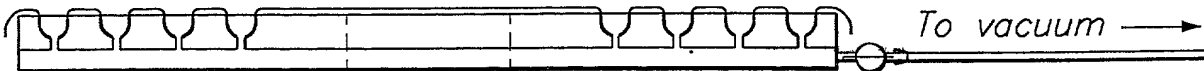
**FIG. 41B**

*Thin plastic film*



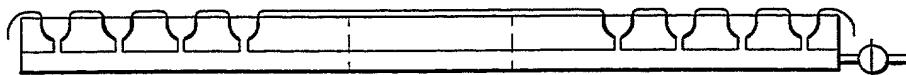
*To vacuum* →

**FIG. 41C**



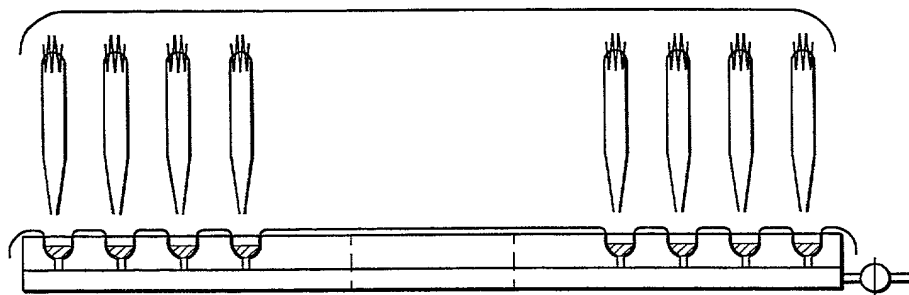
*To vacuum* →

**FIG. 41D**

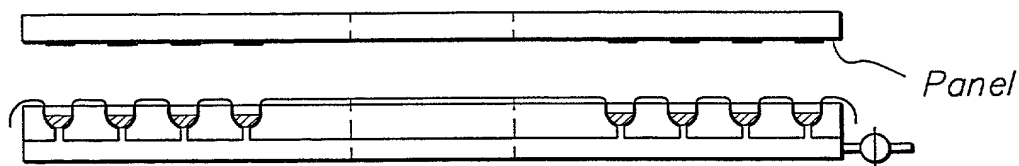


**FIG. 41E**

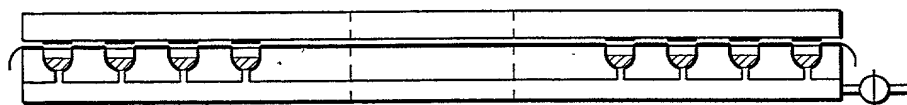
*8-Tip pipetting station*



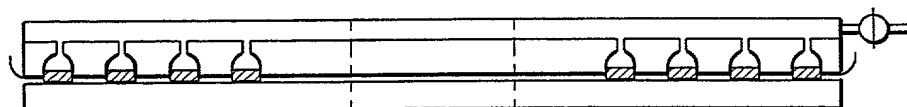
**FIG. 41F**



**FIG. 41G**

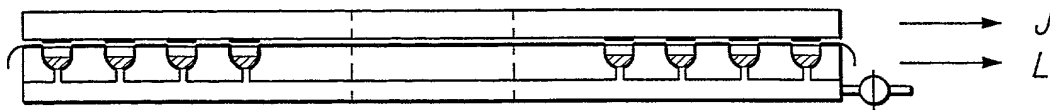


**FIG. 41H**

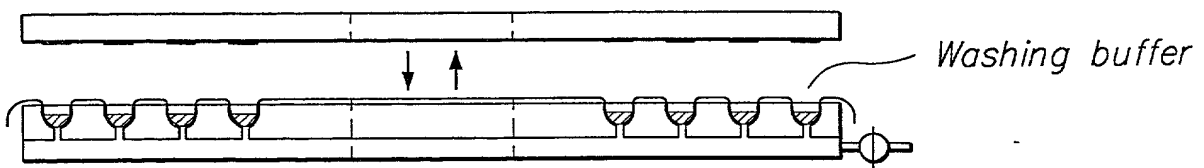




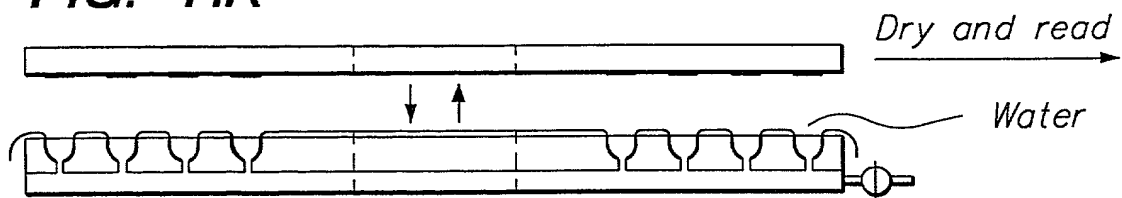
**FIG. 41I**



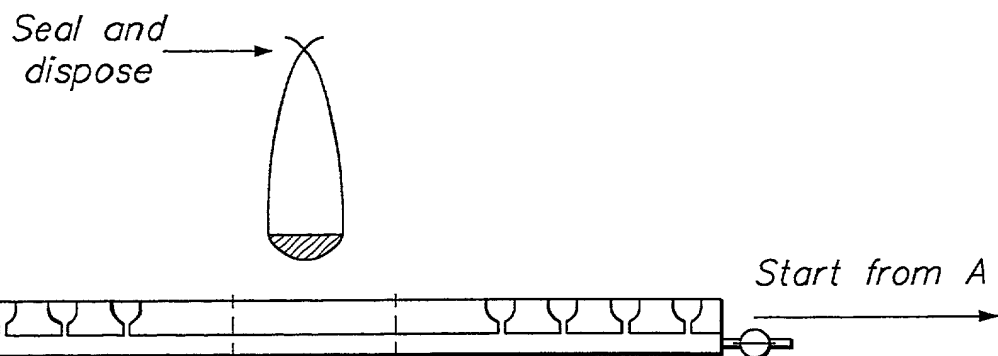
**FIG. 41J**



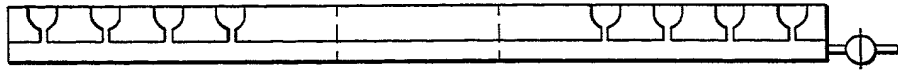
**FIG. 41K**



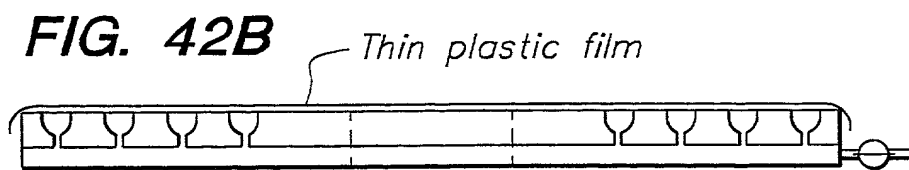
**FIG. 41L**



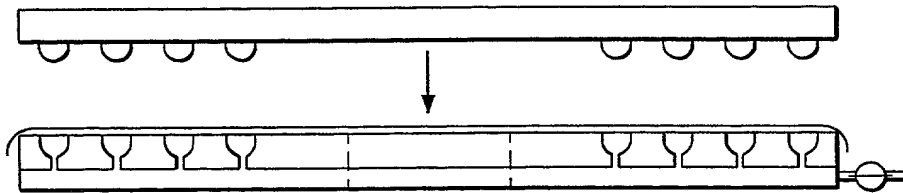
**FIG. 42A**



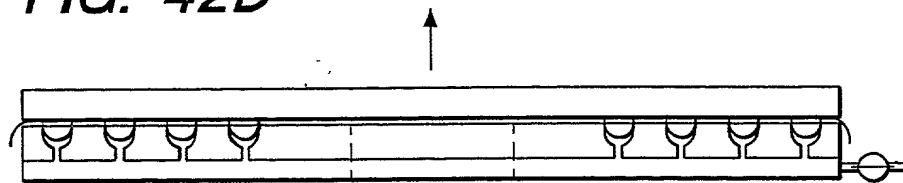
**FIG. 42B**



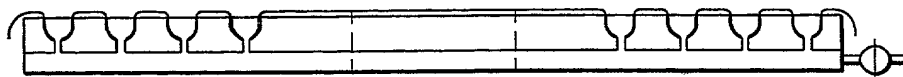
**FIG. 42C**



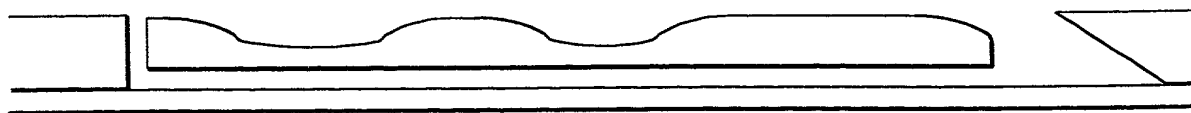
**FIG. 42D**



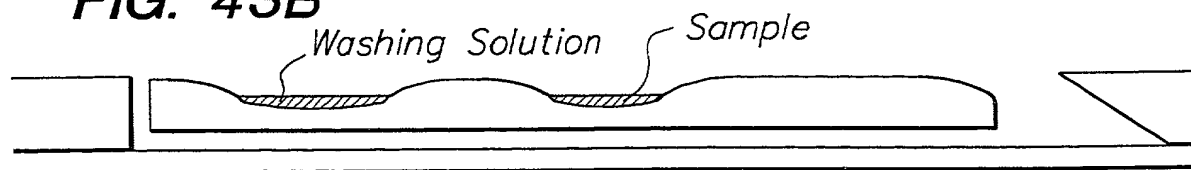
**FIG. 42E**



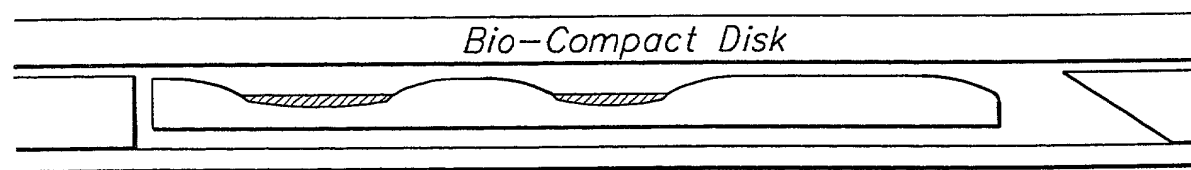
**FIG. 43A**



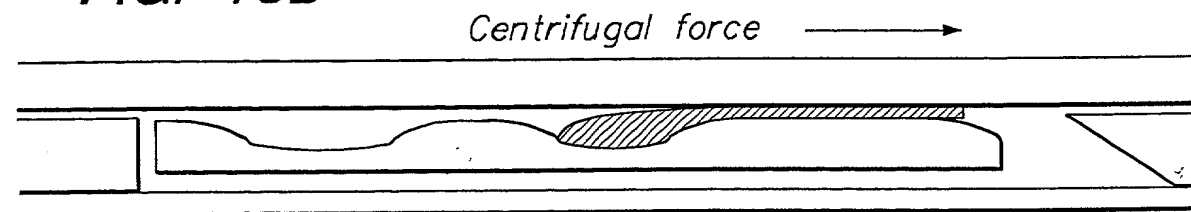
**FIG. 43B**



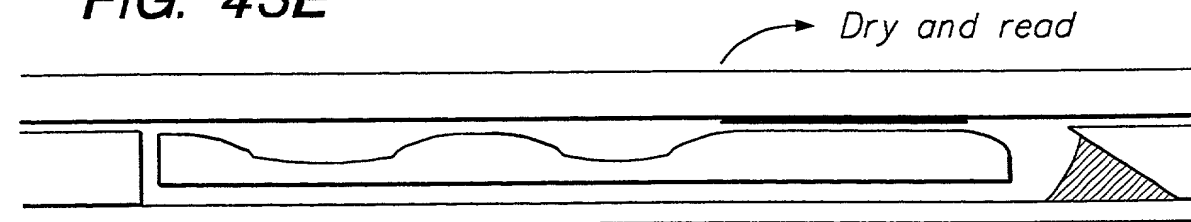
**FIG. 43C**



**FIG. 43D**



**FIG. 43E**



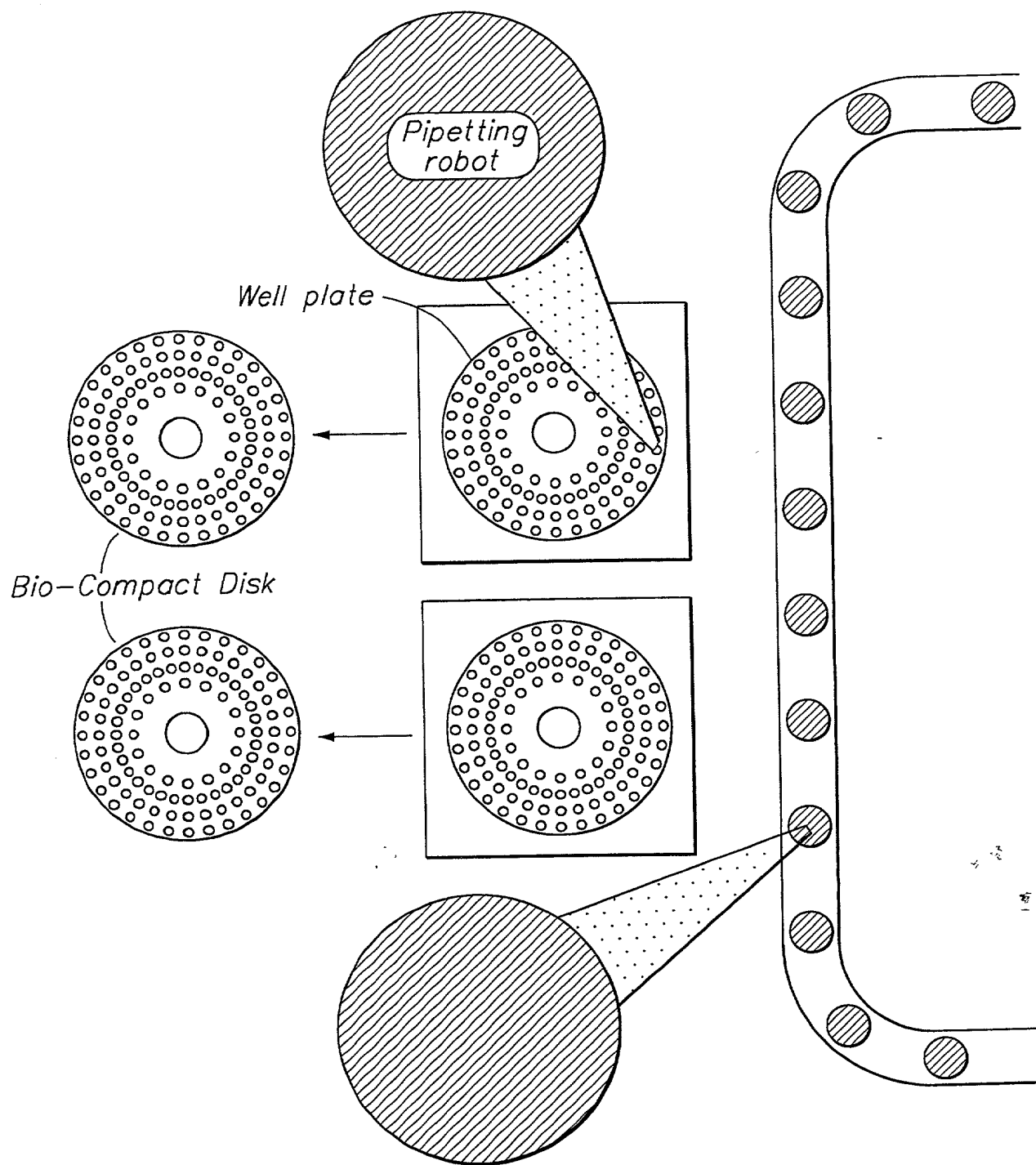


FIG. 44